

Study & Master

Maths Online

Solutions **Grade 5**

Worksheet 1: Counting (1)

Activity 1

1. 2 824; 2 834; 2 844; 2 854; 2 864
2. 4 652; 4 642; 4 632; 4 622; 4 612
3. 8 600; 8 700; 8 800; 8 900; 9 000
4. 1 650; 1 700; 1 750; 1 800; 1 850
5. 500; 625; 750; 875; 1 000

Activity 2

1. 4 891; 4 901; 4 911; 4 921; 4 932; 4 941; 4 951; 4 961; 4 971; 4 981; 4 991; 5 001
2. 8 250; 8 200; 8 150; 8 100; 8 050; 8 000; 7 950; 7 900
3. 720; 1 220; 1 720; 2 220; 2 720; 3 220; 3 720; 4 220; 4 720; 5 220
4. 8 525; 8 550; 8 575; 8 600; 8 625; 8 650; 8 675; 8 700; 8 725; 8 750; 8 775; 8 800; 8 825; 8 850; 8 875; 8 900; 8 925; 8 950; 8 975; 9 000; 9 025; 9 050

Activity 3

$3\ 000 + 1\ 500 + 750 + 400 + 75 = 5\ 725$ points

Worksheet 2: Counting (2)

Activity 1

$600 + 150 + 5 = 755$ marbles

Activity 2

$400 + 500 + 150 + 100 = 1\ 150$

Activity 3

165; 180; 195; 210; 230; 250; 270; 290; 340; 390; 465

Worksheet 3: Place value (1)

Activity 1

1. 1 124
2. 1 485
3. 2 231

Topic 1: Numbers, operations and relationships

Activity 2

1. Learners' own work

2. a) **3 000** **80** **4**
- b) **10 000** **5 000** **900** **70** **8**
- c) **60 000** **3 000** **900** **70** **8**
- d) **100 000** **10 000** **6 000** **900** **70** **8**
- e) **600** **10**
- f) **200 000** **40 000** **7 000** **800** **30** **6**
- g) **80 000** **5 000** **200** **4**
- h) **30 000** **9 000** **200** **50**

Worksheet 4: Place value (2)

Activity 1

1. 8 302 2. 52 507 3. 84 663
4. 29 871 5. 174 108

Activity 2

1. $1\ 000 + 80 + 9$
2. $9\ 000 + 800 + 60 + 6$
3. $10\ 000 + 400 + 90 + 2$
4. $100\ 000 + 20\ 000 + 400 + 90 + 2$
5. $700\ 000 + 60\ 000 + 9\ 000 + 400 + 50 + 4$
6. $400\ 000 + 50\ 000 + 6\ 000 + 300 + 80 + 7$

Activity 3

1. 5
2. 620 051
3. 9 000
4. 40; 400
5. 5

Worksheet 5: Place value (3)

Activity 1

1. $90\ 000 + 8\ 000 + 700 + 50 + 2$; ninety-eight thousand seven hundred and fifty-two
2. $200\ 000 + 1\ 000 + 600 + 30 + 5$; two hundred and one thousand six hundred and thirty-five
3. $80\ 000 + 5\ 000 + 400 + 70 + 5$; eighty-five thousand four hundred and seventy-five
4. $100\ 000 + 50\ 000 + 9\ 000 + 800 + 70 + 4$; one hundred and fifty-nine thousand eight hundred and seventy four
5. $900\ 000 + 20\ 000 + 4\ 000 + 300 + 20 + 1$; nine hundred and twenty-four thousand three hundred and twenty one

Activity 2

1. 27 thousands + 5 hundreds + 8 tens + 2 units
2. 38 thousands + 2 hundreds + 1 ten + 5 units
3. 135 thousands + 6 hundreds + 3 tens + 4 units
4. 845 thousands + 0 hundreds + 1 ten + 8 units

Activity 3

- | | |
|------------|------------|
| 1. 1 327 | 2. 92 852 |
| 3. 56 510 | 4. 8 349 |
| 5. 100 713 | 6. 503 682 |
| 7. 319 058 | |

Worksheet 6: Numbers in words and numerals

Activity 1

two hundred and five thousand six hundred and fifty-three; 205 653

ninety-one thousand six hundred and thirty-two; 91 632

sixteen thousand eight hundred and eighty-nine; 16 825

twenty thousand five hundred and eighty-nine; $20\ 000 + 500 + 80 + 9$

three thousand six hundred and fifty-four; 3 654

$500\ 000 + 50\ 000 + 2\ 000 + 300 + 20 + 1$; 552 321

7 524; $7\ 000 + 500 + 20 + 4$

eighty-five thousand six hundred and ninety-eight; 85 698

Topic 1: Numbers, operations and relationships

Activity 2

1. eight thousand and twenty
2. five thousand two hundred and fifty-six
3. nineteen thousand six hundred and twenty-seven
4. sixty-one thousand five hundred and eighty-nine
5. one hundred and twenty-one thousand four hundred and eighty-five

Activity 3

1. 252 506
2. 96 495
3. 29 102

Worksheet 7: Comparing and ordering numbers (1)

Activity 1

1. 2 962; 5 123; 8 723; 9 240; 13 223; 23 821
2. 45 169; 65 469; 241 365; 465 324; 582 147; 963 147

Activity 2

1. 654 357; 654 159; 645 123; 596 565; 564 321; 465 195
2. 6 332; 6 302; 6 300; 6 032; 6 013; 6 003

Activity 3

1. 65 432; 56 432; 46 532; 36 542; 26 543 (are many more possible numbers)
2. 26 543; 36 542; 46 532; 56 432; 65 432
3. 65 432; 56 432; 46 532; 36 542; 26 543

Worksheet 8: Comparing and ordering numbers (2)

Activity 1

1. A: 4 872; B: 5 872; C: 8 872; D: 9 872
2. A: 4 950; B: 4 925; C: 4 875; D: 4 850
3. A: 9 352; B: 8 352; C: 7 352; D: 5 352
4. A: 255 240; B: 255 340; C: 255 640; D: 255 740

Activity 2

1. $<$
2. $<$
3. $=$
4. $<$
5. $=$

Topic 1: Numbers, operations and relationships

Extension Activity

198 315

Worksheet 9: Rounding to the nearest 5, 10, 100 and 1 000

Activity 1

1. 7 270
2. 9 475
3. 12 400
4. 63 000
5. 168 000

Activity 2

1.	4 533	4 530	4 500	5 000
	3 042	3 040	3 000	3 000
	3 482	3 480	3 500	3 000
	5 895	5 900	5 900	6 000
	5 109	5 110	5 100	5 000

Activity 3

1. R11 700
2. 58 000 people
3. R235 000

Extension Activity

8 134

Worksheet 10: Multiples and factors

Activity 1

1. 42; 49
2. 75
3. 24; 36; 48

Activity 2

1. all numbers ending in an even number are multiples of 2
2. 14; 21; 28; 35; 42; 49; 56; 63; 84
3. 18; 27; 36; 45; 63; 72; 81; 99
4. 30; 35; 10; 80; 20; 45; 100; 25; 40
5. multiples of 4
6. prime numbers

Topic 1: Numbers, operations and relationships

Extension Activity

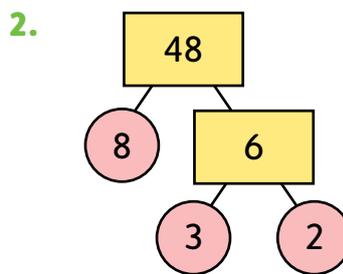
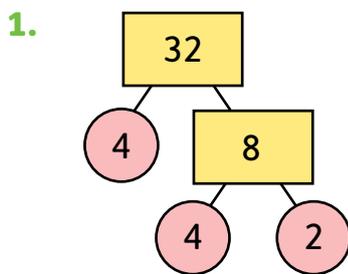
1. 12 m
2. 10

Worksheet 11: Factors

Activity 1

1. yes
2. 1; 2; 3; 4; 9; 12; 18; 36
3. 12; 8; 4
4. yes; 7
5. 1; 2; 4; 8

Activity 2



Extension

- 3.
-
- ```
graph TD; 100[100] --- 5((5)); 100 --- 20[20]; 20 --- 10[10]; 20 --- 2((2)); 10 --- 5((5)); 10 --- 2((2))
```
- A factor tree for the number 100. The root node is a yellow box containing '100'. It branches into a pink circle containing '5' and a yellow box containing '20'. The '20' node branches into a yellow box containing '10' and a pink circle containing '2'. The '10' node further branches into a pink circle containing '5' and a pink circle containing '2'.
4. true; 1, 2, 3, 4, 6, 12 are all factors of 72

## Worksheet 12: Odd and even numbers

### Activity 1

1. 613; 565; 433; 339
2. 322; 988; 422; 890

### Activity 2

1. 963
2. 726; 762; 276; 672
3. 385
4. 552; 554; 556; 558; 560; 562; 564; 566; 568; 570; 572; 574; 576; 578
5. 331; 333; 335; 337; 339; 341; 343; 345; 347; 349; 351; 353; 355; 357; 359

# Topic 1: Numbers, operations and relationships

## Extension Activity

1. 100; 204; 256
2. They can be divided by 2
3. 204 is an even number

## Worksheet 13: Addition (1)

### Activity 1

1. 35 900
2. 56 100
3. 49 000
4. 62 500
5. 69 900

### Activity 2

1. 563
2. 7 802
3. 6 284
4. 17 165
5. 141 153
6. 93 177

### Activity 3

1. 7 616
2. 8 212
3. 83 326
4. 80 443

### Activity 4

1. 27 513
2. 28 525 people
3. R78 900; R78 915

## Worksheet 14: Addition (2)

### Activity 1

1. 1 546
2. 11 808
3. 15 027
4. 97 673
5. 60 418
6. 79 989

### Activity 2

1. 141 153
2. 11 523
3. 15 253
4. 69 080
5. 44 937
6. 16 477

# Topic 1: Numbers, operations and relationships

## Activity 3

- 103 091 people
- R48 284
- 21 011 km
- 20 918 bags
- R112 368

## Worksheet 15: Addition (3)

### Activity 1

- 6 833
- 42 226
- 33 126
- 11 284
- 143 921
- 82 441

### Activity 2

- 8 886
- 39 459
- 9 514
- 639
- 11 055
- 17 243

### Activity 3

- 17 386 flowers
- 47 539 books
- 50 774 spectators
- 68 776 marbles
- 34 418 points

## Worksheet 16: Subtraction (1)

### Activity 1

- 1 422
- 11 111
- 2 131
- 6 013
- 24 363
- 16 551

### Activity 2

- 4 809
- 3 532
- 32 741
- 28 571

### Activity 3

- Choc-a-Lot: 2 234; Caramel Treat: 3 491; Wispy Wafer: 3 024
- R5 318
- R8 574

# Topic 1: Numbers, operations and relationships

## Worksheet 17: Subtraction (2)

### Activity 1

1. 8 927
2. 2 086
3. 63 534
4. 31 328
5. 91 815
6. 1 331

### Activity 2

1. D
2. F
3. B
4. G
5. C
6. I
7. A
8. J
9. E
10. H

### Extension Activity

|       |       |       |
|-------|-------|-------|
| 2 160 | 2 255 | 1 462 |
| 1 261 | 1 959 | 2 657 |
| 2 456 | 1 663 | 1758  |

|       |       |       |
|-------|-------|-------|
| 2 563 | 3 068 | 2 967 |
| 3 270 | 2 866 | 2 462 |
| 2 765 | 2 664 | 3 169 |

## Worksheet 18: Subtraction (3)

### Activity 1

1. 18 215
2. 4 017
3. 1 389
4. 53 693
5. 11 923

### Activity 2

1. 74 292
2. 34 238
3. 11 529
4. 23 195
5. 87 416
6. 3 818

### Activity 3

1. 3 213 more
2. 21 356 kg
3. 1 680 km

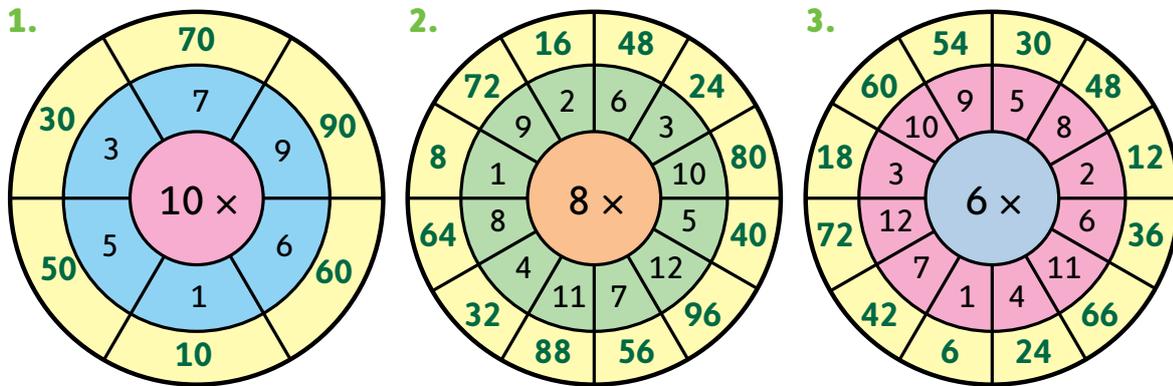
### Extension Activity

Month 1: 7208 Choc-Creams

Month 2: 5 976 Caramel Crunch

## Worksheet 19: Multiplication facts

### Activity 1



### Activity 2

- $6 \times 10 = 60$ ;  $60 \times 10 = 600$ ;  $600 \times 10 = 6\ 000$ ;  $6\ 000 \times 10 = 60\ 000$
- $6 \times 100 = 600$ ;  $19 \times 100 = 1\ 900$ ;  $81 \times 100 = 8\ 100$ ;  $70 \times 100 = 7\ 000$
- $4 \times 1\ 000 = 4\ 000$ ;  $40 \times 1\ 000 = 40\ 000$ ;  $400 \times 1\ 000 = 400\ 000$ ;  
 $4\ 000 \times 1\ 000 = 4\ 000\ 000$
- $50 \times 80 = 4\ 000$ ;  $80 \times 80 = 6\ 400$ ;  $300 \times 80 = 24\ 000$ ;  $600 \times 80 = 48\ 000$
- $2 \times 25 = 50$ ;  $4 \times 25 = 100$ ;  $8 \times 25 = 200$ ;  $16 \times 25 = 400$
- $4 \times 15 = 60$ ;  $6 \times 15 = 90$ ;  $7 \times 15 = 105$ ;  $13 \times 15 = 195$

### Activity 3

- |       |          |        |
|-------|----------|--------|
| 1. 20 | 2. 66    | 3. 27  |
| 4. 40 | 5. 132   | 6. 57  |
| 7. 70 | 8. 1 320 | 9. 540 |

## Worksheet 20: Multiplication (1)

### Activity 1

Nomsa is incorrect:  $24 \times 56$

$$= (20 + 4) \times 56$$

$$= (20 \times 56) + (4 \times 56)$$

$$= 1\ 120 + 224$$

$$= 1\ 344$$

# Topic 1: Numbers, operations and relationships

## Activity 2

1. 2 790
2. 666
3. 1 968
4. 29 790
5. 18 904
6. 16 235

## Activity 3

1. 1 170 slices
2. 288 km
3. 616 chairs
4. 4 725
5. 5 292 pancakes

## Worksheet 21: Multiplication (2)

### Activity 1

$$51 \times 27 = (51 \times 3) \times 3 \times 3 = (153 \times 3) \times 3 = 459 \times 3 = (400 + 50 + 9) \times 3 = 1\,377$$

### Activity 2

1. 400
2. 6 848
3. 28 896
4. 9 216
5. 2 960
6. 1 728

### Activity 3

1. 47 763
2. 2 128 cupcakes
3. R3 024
4. 432 sweets
5. 1 218 calories

## Worksheet 22: Multiplication (3)

1. 21      12      15  
42      24      30  
49      48      45  
98      96      450
2. 240      480      280  
270      960      450  
4 500      1 600      1 000  
3 000      8 000      3 600  
400      40 000      2 000

## Topic 1: Numbers, operations and relationships

3.  $24 = 8 \times 3$                        $64 = 32 \times 2$   
 $24 = 6 \times 4$                           $64 = 16 \times 4$   
 $24 = 12 \times 2$                         $64 = 8 \times 8$   
 $36 = 12 \times 3$                         $96 = 8 \times 12$   
 $36 = 6 \times 6$                           $112 = 7 \times 16$   
 $36 = 18 \times 2$                         $120 = 15 \times 8$   
 $48 = 16 \times 3$                         $128 = 32 \times 4$   
 $48 = 8 \times 6$                           $128 = 64 \times 2$   
 $56 = 7 \times 8$                           $128 = 8 \times 16$
4.  $4 \times 5 = 20$                        $4 \times 10 = 40$                        $4 \times 15 = 60$   
 $14 \times 5 = 70$                        $140 \times 10 = 1\ 400$                        $140 \times 15 = 2\ 100$

### Worksheet 23: Doubling and halving

#### Activity 1

1. 60                                      2. 240                                      3. 183  
4. 376                                      5. 208                                      6. 198  
7. 423                                      8. 668                                      9. 2 282  
10. 1 234

#### Activity 2

1. a)  $24 \times 2 = 48$ , then  $24 \times 4 = 96$  and  $24 \times 8 = 192$   
b)  $96 \times 2 = 192$ , then  $96 \times 4 = 384$  and  $96 \times 8 = 768$   
c)  $196 \times 2 = 392$ , then  $196 \times 4 = 784$  and  $196 \times 8 = 1\ 568$
2. a) 592                                      b) 2 000                                      c) 2 928

#### Extension

3. a) 1 184                                      b) 2 000                                      c) 8 784

#### Activity 3

1. 32; 72; 256; 728  
2. 250; 300; 700; 625; 460  
3. 192; 300; 2 800; 520; 1 152  
4. 32; 48; 216; 248; 460

## Worksheet 24: Division (1)

### Activity 1

- |         |         |        |
|---------|---------|--------|
| 1. 60   | 2. 600  | 3. 30  |
| 4. 9    | 5. 30   | 6. 4   |
| 7. 5    | 8. 90   | 9. 7   |
| 10. 200 | 11. 300 | 12. 70 |

### Activity 2

- |                          |                         |
|--------------------------|-------------------------|
| 1. 5; 6; 12; 42; 45      | 2. 2; 12; 6; 24; 84     |
| 3. 40; 6; 128; 8; 3      | 4. 65; 85; 95; 105; 185 |
| 5. 40; 100; 70; 140; 120 | 6. 20; 50; 35; 70; 60   |

## Worksheet 25: Division (2)

### Activity 1

- |      |       |       |
|------|-------|-------|
| 1. 5 | 2. 5  | 3. 2  |
| 4. 9 | 5. 11 | 6. 10 |

### Activity 2

- 75; 105; 125; 160; 245
- 265; 480; 315; 395;  $800 \div 2 = 400$

### Activity 3

- 288 (**Note:** Question in Activity Book should read  $288 \div 9$ )
- 23
- 130
- 102
- 51

### Activity 4

- 52 buttons
- 63 trees

## Worksheet 26: Division (3)

### Activity 1

- |             |             |              |
|-------------|-------------|--------------|
| 1. 18       | 2. 56       | 3. 31        |
| 4. 15 rem 5 | 5. 21 rem 1 | 6. 27 rem 17 |

## Topic 1: Numbers, operations and relationships

### Extension Activity

1. 14 glasses
2. 29 sandwiches
3. 432 cans
4. No, they need 20 buses.

### Worksheet 27: Comparing two quantities (Ratio and rate)

#### Activity 1

1. 6 learners
2. 14 learners
3.  $\times 2$
4. 8 desks
5. 40 desks

#### Extension Activity

1. Learners' own work
2. a) 5  
b) 10 rounds  
c Jamal has 20 shells, and Juwai has 30 shells

#### Activity 2

1. 5 burgers
2. 21 burgers
3. Molly
4. 5 burgers on average
5. 4 burgers
6. No, he eats 8 burgers in 2 hours.

### Worksheet 28: Ordering and comparing fractions (1)

#### Activity 1

1.  $\frac{5}{9}$
2.  $\frac{3}{5}$
3.  $\frac{8}{9}$
4.  $\frac{7}{8}$
5.  $\frac{1}{8}$
6.  $\frac{3}{4}$

#### Activity 2

1. A :  $4\frac{2}{4}$ ; B :  $5\frac{1}{4}$ ; C :  $5\frac{2}{4}$ ; D :  $5\frac{3}{4}$
2. A : 7; B :  $7\frac{2}{8}$ ; C :  $7\frac{3}{8}$ ; D :  $7\frac{4}{8}$

## Activity 3

- $\frac{2}{6}, \frac{4}{10}, \frac{3}{4}, \frac{7}{9}, \frac{10}{12}, \frac{7}{8}$
- $\frac{3}{4}, \frac{7}{9}, \frac{10}{12}$  or  $\frac{7}{8}$
- $\frac{7}{9}, \frac{3}{4}, \frac{4}{10}$  or  $\frac{2}{6}$

## Worksheet 29: Ordering and comparing fractions (2)

### Activity 1

4;  $4\frac{1}{3}$ ;  $4\frac{2}{3}$ ; 5;  $5\frac{1}{3}$ ;  $5\frac{2}{3}$ ; 6;  $6\frac{1}{5}$ ;  $6\frac{2}{5}$ ;  $6\frac{3}{5}$ ;  $6\frac{4}{5}$ ; 7;  $7\frac{1}{2}$ ; 8

### Activity 2

- |                  |                   |                  |                    |
|------------------|-------------------|------------------|--------------------|
| 1. $\frac{1}{4}$ | 2. $\frac{1}{3}$  | 3. $\frac{2}{4}$ | 4. $\frac{9}{12}$  |
| 5. $\frac{2}{3}$ | 6. $\frac{7}{12}$ | 7. $\frac{3}{4}$ | 8. $\frac{10}{12}$ |

### Activity 3

- A :  $12\frac{4}{12}$ ; B :  $12\frac{7}{12}$ ; C :  $13\frac{1}{12}$ ; D :  $13\frac{4}{12}$ ; E :  $13\frac{7}{12}$
- A :  $3\frac{1}{5}$ ; B :  $3\frac{3}{5}$ ; C :  $3\frac{4}{5}$ ; D :  $4\frac{1}{5}$ ; E :  $4\frac{2}{5}$

## Worksheet 30: Fraction of a whole

### Activity 1

- 8 marbles
- 2 marbles
- $\frac{1}{4}$

### Activity 2

- 

- $\frac{1}{8}$
  - 4 pieces
- 18 sweets
  - 54 sweets
- 4 jelly beans
- $\frac{1}{4}$
  - 5 lollipops

## Worksheet 31: Equivalent fractions

### Activity 1

1.  $\frac{1}{4} = \frac{2}{8} = \frac{3}{12}$

2.  $\frac{4}{8} = \frac{1}{2} = \frac{2}{4}$

3.  $\frac{2}{6} = \frac{1}{3} = \frac{3}{9}$

### Activity 2

1.  $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{5}{10} = \frac{6}{12}$

2.  $\frac{3}{9} = \frac{1}{3} = \frac{6}{18}$

3.  $\frac{4}{6} = \frac{6}{9} = \frac{2}{3}$

### Activity 3

1. 6 thirds

2. 50 fifths

3. 32 quarters

4. 64 eighths

5. 72 sixths

6. 50 tenths

### Extension Activity

1.  $\frac{3}{5}$  will be longer

2.  $\frac{6}{12} = \frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$

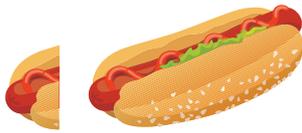
3. a) 3 pieces

b)  $\frac{1}{4}$

## Worksheet 32: Mixed numbers

### Activity 1

1.



2.  $1\frac{1}{4}$  each

### Activity 2

1.  $3\frac{2}{5}$

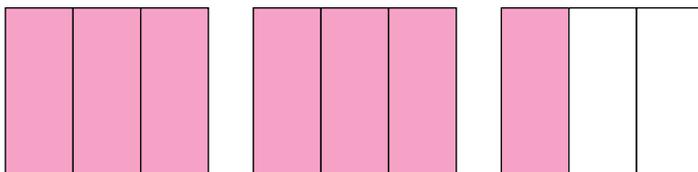
2.  $1\frac{3}{12} = 1\frac{1}{4}$

3.  $2\frac{3}{6} = 2\frac{1}{2}$

4.  $2\frac{2}{4} = 2\frac{1}{2}$

### Activity 3

1.

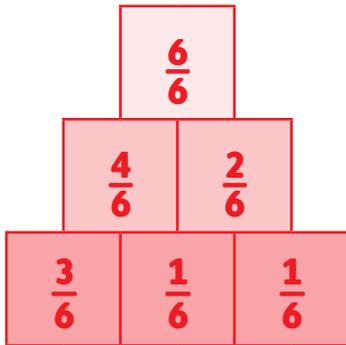




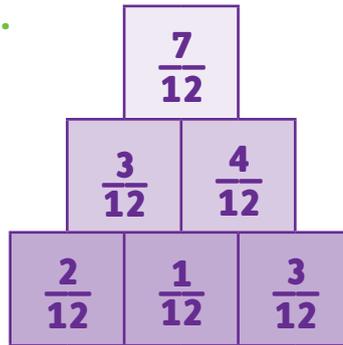
# Topic 1: Numbers, operations and relationships

## Activity 3

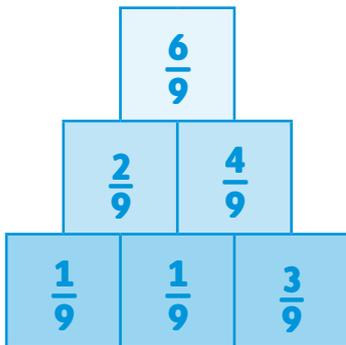
1.



2.

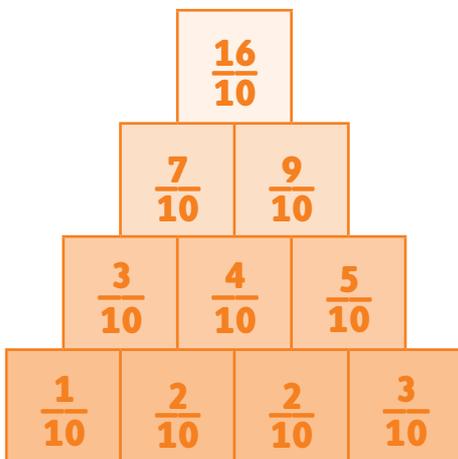


3.



## Extension

4.



## Worksheet 34: Addition and subtraction (2)

### Activity 1

1. a)  $\frac{2}{5}$

b) 36 minutes

2. a)  $\frac{7}{10}$

b) R140

3.  $\frac{22}{4} = \frac{11}{2} = 5\frac{1}{2}$

## Topic 1: Numbers, operations and relationships

### Activity 2

1. No,  $5 - 3 + \frac{8}{9} - \frac{6}{9} = \frac{20}{9} = 2\frac{2}{9}$

2. a)  $\frac{17}{3} = 5\frac{2}{3}$

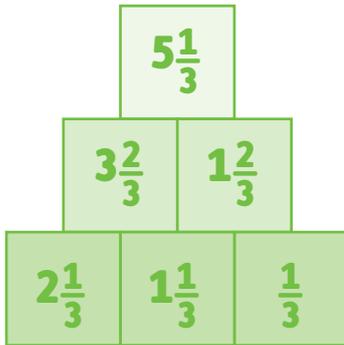
b)  $\frac{11}{5} = 2\frac{1}{5}$

c)  $\frac{69}{10} = 6\frac{9}{10}$

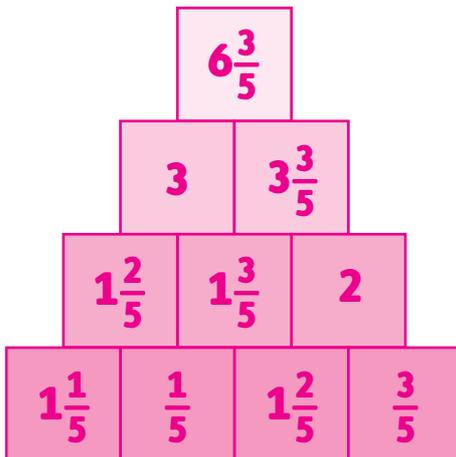
d)  $\frac{7}{2} = 3\frac{1}{2}$

### Activity 3

1.



2.



### Extension Activity

1. 20 glasses

2. 5 small trays

3. 20 glasses

4. 2 large trays

## Worksheet 35: Addition and subtraction (3)

### Activity 1

1.  $3\frac{7}{10}$  rows

2. 6 glasses

3.  $\frac{3}{8}$  left

### Activity 2

4;  $4\frac{1}{3}$ ;  $4\frac{2}{3}$ ;  $5\frac{1}{3}$ ; 5;  $5\frac{1}{4}$ ;  $4\frac{3}{4}$ ; 5;  $5\frac{1}{6}$ ;  $+1\frac{5}{6}$ ;  $7\frac{3}{8}$ ;  $+\frac{5}{8}$ ;  $7\frac{1}{2}$ ;  $8\frac{1}{2}$ ;  $+\frac{1}{2}$

## Topic 1: Numbers, operations and relationships

### Activity 3

1.  $14\frac{4}{5}$

2. 5

3.  $1\frac{2}{3}$

4.  $1\frac{1}{3}$

### Worksheet 36: Revision

#### Activity 1

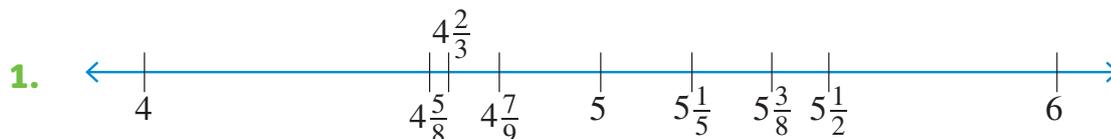
1.  $\frac{1}{4} = \frac{2}{8} = \frac{3}{12}$

2.  $\frac{2}{3} = \frac{4}{6} = \frac{8}{12}$

3.  $\frac{2}{5} = \frac{4}{10}$

4.  $\frac{3}{4} = \frac{9}{12}$

#### Activity 2



2.  $4\frac{5}{8}$  and  $5\frac{3}{8}$

3.  $4\frac{2}{3}$

4.  $1\frac{2}{5}$

#### Activity 3

1.  $13\frac{7}{10}$

2.  $11\frac{2}{4}$

3. 3

4.  $3\frac{2}{3}$

5.  $1\frac{1}{7}$

6.  $5\frac{2}{8}$

7.  $6\frac{2}{4}$

8.  $2\frac{2}{3}$

#### Activity 4

1.  $\frac{5}{2} = 2\frac{1}{2}$

2. a) 9 counters

b) 8 counters

c)  $\frac{8}{24} = \frac{1}{3}$

### Worksheet 37: Number patterns (1)

#### Activity 1

- |    |                                         |                    |
|----|-----------------------------------------|--------------------|
| 1. | 12; 17; 22; 27; 32; 37; 42; 47.         | Rule: Add five     |
| 2. | 251; 258; 265; 272; 279; 286; 293.      | Rule: Add seven    |
| 3. | 572; 585; 598; 611; 624; 637; 650; 663. | Rule: Add thirteen |
| 4. | 125; 140; 155; 170; 185; 200; 215.      | Rule: Add fifteen  |

#### Activity 2

- |    |                    |    |                       |
|----|--------------------|----|-----------------------|
| 1. | 2; 12; 32; 72; 152 | 2. | 512; 128; 32; 8; 2    |
| 3. | 5; 6; 8; 11; 15    | 4. | 1 875; 375; 75; 15; 3 |

#### Extension Activity

- 558; 564; 1 692  
Rule: Add 6 to every odd term, and multiply every even term by 3
- 14; 9; 16  
Rule: Add 7 to every odd term, and subtract 5 from every even term

### Worksheet 38: Number patterns (2)

#### Activity 1

- |    |    |    |    |    |   |    |   |
|----|----|----|----|----|---|----|---|
| 1. | 25 | 2. | 7  | 3. | 8 | 4. | 5 |
| 5. | 4  | 6. | 45 | 7. | 3 | 8. | 1 |

#### Activity 2

- $x - 1\,976 = 46$ ;  $x = 2\,022$
- $x \div 32 = 46$ ;  $x = 1\,472$
- $Mother \div 3 = Jabu$ ;  $52 = 25 + mother$ ;  $Mother = 27$  years old;  $Jabu = 9$  years old

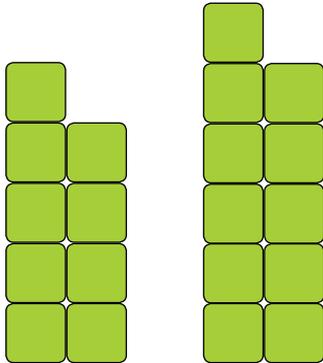
#### Activity 3

- 19; 35; 43; 67
- 9; 0; 6; 4
- 61; 72; 270

## Worksheet 39: Number patterns (3)

### Activity 1

1.



2. Picture 5: Add 2; Picture 6: Add 4

|                         |   |   |   |   |   |    |    |    |
|-------------------------|---|---|---|---|---|----|----|----|
| <b>Picture</b>          | 1 | 2 | 3 | 4 | 5 | 6  | 10 | 20 |
| <b>Number of blocks</b> | 1 | 3 | 5 | 7 | 9 | 11 | 19 | 39 |

4. Double the term number, and subtract one

5. 1; 3; 5; 11; 19; 39

6.  $30 \times 2 - 1 = 59$  blocks

## Worksheet 40: Number patterns (4)

### Activity 1

|                        |   |   |    |    |    |    |    |    |     |
|------------------------|---|---|----|----|----|----|----|----|-----|
| <b>Picture</b>         | 1 | 2 | 3  | 4  | 5  | 8  | 10 | 15 | 30  |
| <b>Number of tiles</b> | 4 | 8 | 12 | 16 | 20 | 32 | 40 | 60 | 120 |

2. Multiply by four

### Activity 2

1. 5 blue

2. 8; 13; 18; 23; 28; 53

|                     |   |    |    |    |    |    |    |     |
|---------------------|---|----|----|----|----|----|----|-----|
| <b>Yellow tiles</b> | 1 | 2  | 3  | 4  | 5  | 10 | 12 | 20  |
| <b>Blue tiles</b>   | 8 | 13 | 18 | 23 | 28 | 53 | 63 | 103 |

### Worksheet 41: Number patterns (5)

#### Activity 1

1. 3 triangles
2. 1; 4; 7; 10;  $5 \times 3 - 2 = 13$ ;  $6 \times 3 - 2 = 16$
3. Multiply the term number by 3, and subtract 2.
4.  $1 \times 3 - 2 = 1$ ;  $2 \times 3 - 2 = 4$ ;  $3 \times 3 - 2 = 7$ ;  $4 \times 3 - 2 = 10$ ;  $5 \times 3 - 2 = 13$ ;  
 $6 \times 3 - 2 = 16$
5. picture 50

## Topic 3: Space and shape (geometry)

### Worksheet 42: What shape am I?

#### Activity 1

1. irregular hexagon
2. regular heptagon
3. irregular trapezium
4. regular pentagon
5. irregular hexagon
6. regular hexagon
7. irregular hexagon
8. irregular rectangle

#### Activity 2

1. square
2. rectangle
3. triangle
4. heptagon
5. circle

### Worksheet 43: Sorting shapes

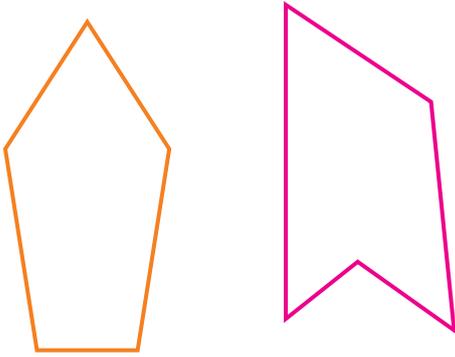
#### Activity 1

1. 13; 16; 26; 30
2. 2; 5; 6; 7; 8; 9; 11; 15; 19; 20; 21; 22; 23; 24; 27; 29; 31; 32
3. 1; 3; 4; 10; 12; 14; 17; 18; 25; 28
4. 3; 6; 8; 10; 11; 15; 18; 24; 27; 29; 32
5. 6; 8; 11; 24; 32
6. 3; 10; 18
7. 1; 5; 20; 22
8.
  - a) 4; 21
  - b) 12; 14; 28
  - c) 7; 17; 19; 25
9. Trapezium and Rhombus
10.
  - a) pentagon
  - b) they both have 5 sides
  - c) one is regular and one is irregular pentagon
11.
  - a) triangles
  - b) the lengths of the sides

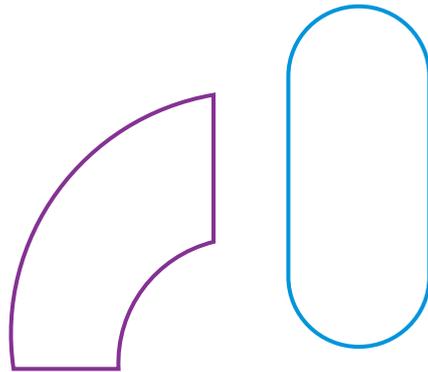
## Worksheet 44: Shape riddles

### Activity 1

1. Two different irregular shapes with five straight sides



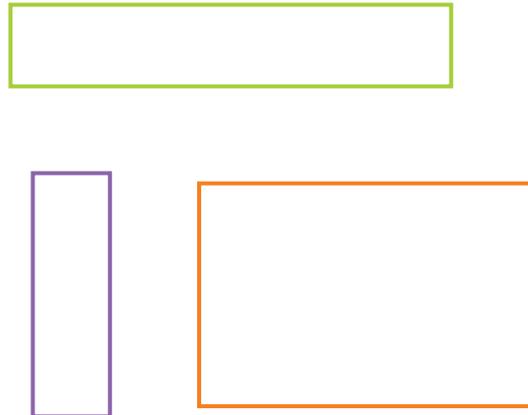
2. Two different irregular shapes with curved and straight sides



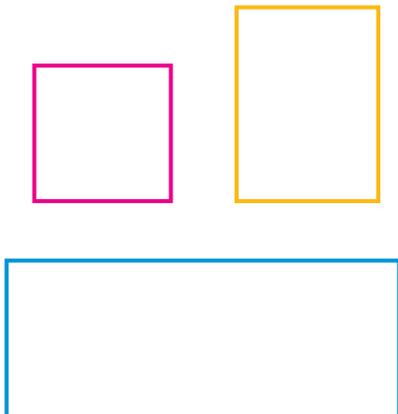
3. A quadrilateral with all sides the same length



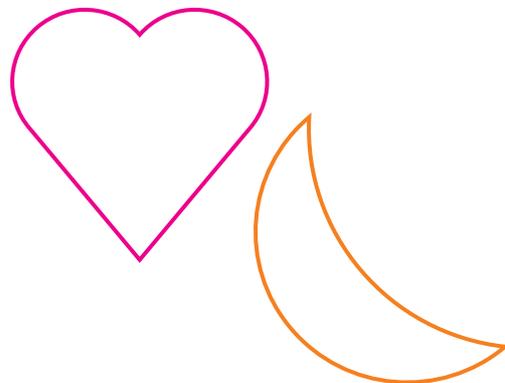
4. Three different rectangles



5. Two different rectangles and one square

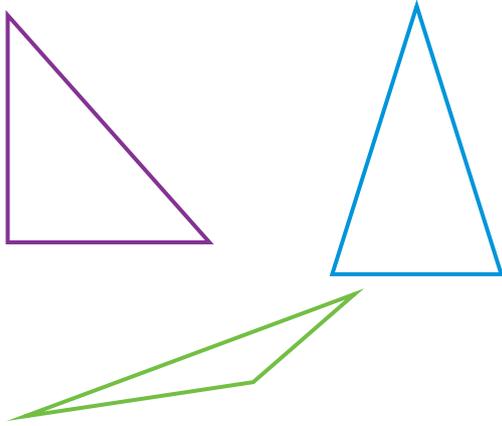


6. Two curved shapes

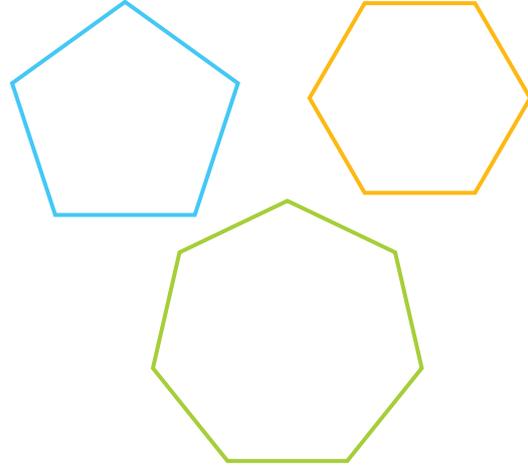


## Topic 3: Space and shape (geometry)

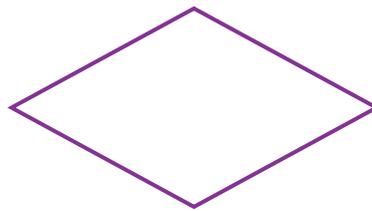
7. Three different triangles, one with a right angle.



8. A regular pentagon, heptagon and hexagon.



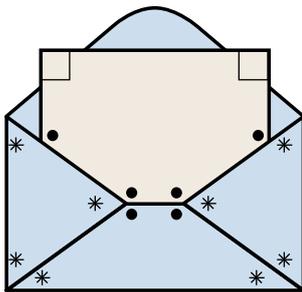
9. A shape of your own. Say if it is regular or irregular, has straight or curved sides, and if the sides are all the same length.



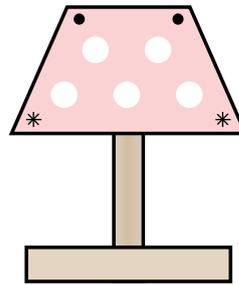
### Worksheet 45: Hunting angles

#### Activity 1

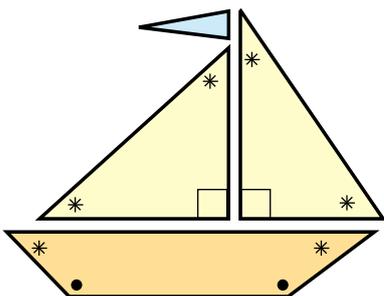
1.



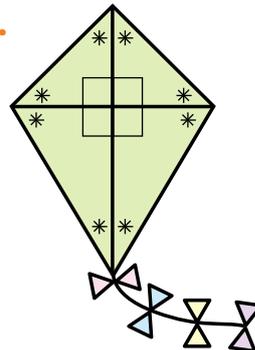
2.



3.

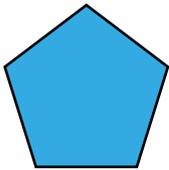
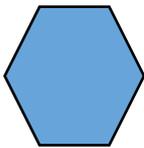
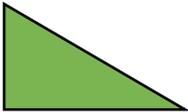
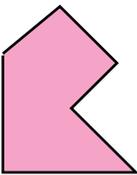


4.



## Worksheet 46: Angles and shapes

### Activity 1

| Shape                                                                               | Name of shape         | Number of angles | Number of right angles |
|-------------------------------------------------------------------------------------|-----------------------|------------------|------------------------|
|    | Regular pentagon      | Five             | None                   |
|    | Regular heptagon      | Six              | None                   |
|    | Right angled triangle | Three            | One                    |
|  | Rectangle             | Four             | Four                   |
|  | Hexagon               | Six              | None                   |
|  | Square                | Four             | Four                   |

## Worksheet 47: Composite shapes

### Activity 1

Learners' own work

### Activity 2

Learners' own work

## Topic 3: Space and shape (geometry)

### Worksheet 48: Squares and rectangles

#### Activity 1

1.  $A = 4$

$B = 4$

$C = 4$

$D = 4$

$E = 4$

$F = 4$

$G = 4$

$H = 4$

2.  $A = 4$

$B = 4$

$C = 4$

$D = 4$

$E = 4$

$F = 4$

$G = 4$

$H = 4$

3.

| Shape                   | A | B | C | D | E | F | G |
|-------------------------|---|---|---|---|---|---|---|
| Length of side (top)    | 3 | 3 | 5 | 5 | 1 | 1 | 3 |
| Length of side (bottom) | 3 | 3 | 5 | 5 | 1 | 1 | 3 |
| Length of side (left)   | 3 | 2 | 2 | 5 | 3 | 1 | 5 |
| Length of side (right)  | 3 | 2 | 2 | 5 | 3 | 1 | 5 |

4. A, D, and F are squares, because all 4 sides equal.

5. B, C, E, and G are rectangles, because 2 pairs of opposite sides are equal.

6. They're both rectangles

7. Squares = 4 equal sides. Rectangles = 2 pairs of opposite sides equal.

### Worksheet 49: Irregular shapes

#### Activity 1

1. A shape with unequal sides and unequal interior angles

2. Regular polygon = equal sides and equal interior angles; Irregular polygon = unequal sides and unequal interior angles.

#### Activity 2

Learners' own work

#### Activity 3

Learners' own work

## Worksheet 50: Recognising 3-D objects

### Activity 1

| 1. | spheres | cylinders | cones | pyramids | rectangular prisms | triangular prisms | cubes |
|----|---------|-----------|-------|----------|--------------------|-------------------|-------|
|    | A, B, J | E, G, M   | F, H  | N        | C, D               | K                 | I, L  |

## Worksheet 51: Naming 3-D objects

### Activity 1

| Number | Name             | Reason                                        |
|--------|------------------|-----------------------------------------------|
| 1.     | Square prism     | 2 square surfaces, and 4 rectangular surfaces |
| 2.     | Sphere           | 1 curved surface, no angles                   |
| 3.     | Cylinder         | 2 circular bases and 1 curved surface         |
| 4.     | Cone             | circular base connected to 1 vertex           |
| 5.     | Square pyramid   | square base and 4 triangular surfaces         |
| 6.     | Triangular prism | 2 triangular bases and 3 rectangular surfaces |
| 7.     | Hexagonal prism  | 2 hexagon bases and 6 rectangular surfaces    |

## Worksheet 52: Describing 3-D objects (1)

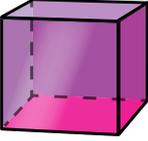
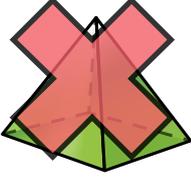
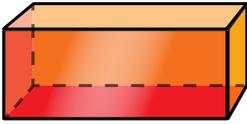
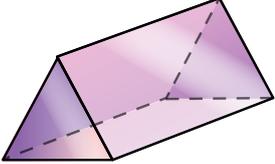
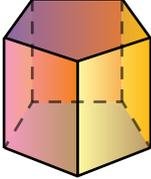
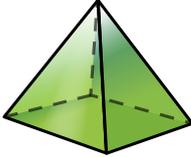
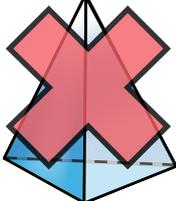
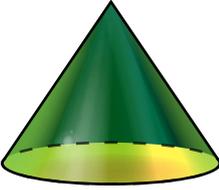
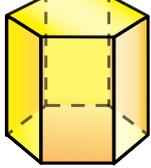
### Activity 1

| Number | Name             | Shapes of faces        | Number of edges | Number of vertices | Number of faces |
|--------|------------------|------------------------|-----------------|--------------------|-----------------|
| 1.     | Cube             | Square                 | 12              | 8                  | 6               |
| 2.     | Square prism     | Square and rectangle   | 12              | 8                  | 6               |
| 3.     | Square pyramid   | Square and triangle    | 8               | 5                  | 5               |
| 4.     | Cylinder         | Circle and rectangle   | 2               | 0                  | 3               |
| 5.     | Triangular prism | Triangle and rectangle | 9               | 6                  | 5               |
| 6.     | Sphere           | Curved                 | 0               | 0                  | 1               |
| 7.     | Hexagonal prism  | Hexagon and rectangle  | 18              | 12                 | 8               |

## Topic 3: Space and shape (geometry)

### Worksheet 53: Describing 3-D objects (2)

#### Activity 1

| Description                           | A                                                                                   | B                                                                                    | C                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. 7 faces<br>15 edges<br>10 vertices |    |    |    |
| 2. 5 faces<br>8 edges<br>5 vertices   |    |    |    |
| 3. 4 faces<br>6 edges<br>5 vertices   |   |   |   |
| 4. 3 faces<br>2 edges<br>0 vertices   |  |  |  |
| 5. 7 faces<br>12 edges<br>7 vertices  |  |  |  |

### Worksheet 54: Making 3-D objects

#### Activity 1

Learners' own work

### Worksheet 55: Nets of 3-D objects (1)

#### Activity 1

Learners' own work

## Worksheet 56: Nets of 3-D objects (2)

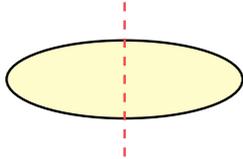
### Activity 1

- |                       |                     |
|-----------------------|---------------------|
| 1. Triangular pyramid | 2. Cube             |
| 3. Square pyramid     | 4. Triangular prism |
| 5. Cone               | 6. Cylinder         |
| 7. Pentagonal prism   | 8. Hexagonal prism  |

## Worksheet 57: Symmetry (1)

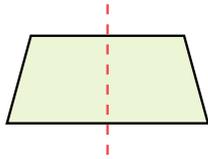
### Activity 1

1. Not a line of symmetry

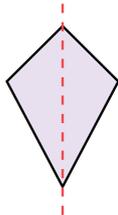


2. Is a line of symmetry

3. Not a line of symmetry

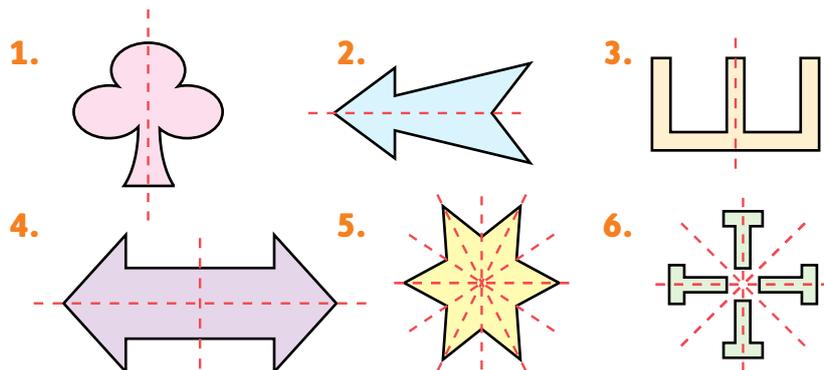


4. Not a line of symmetry



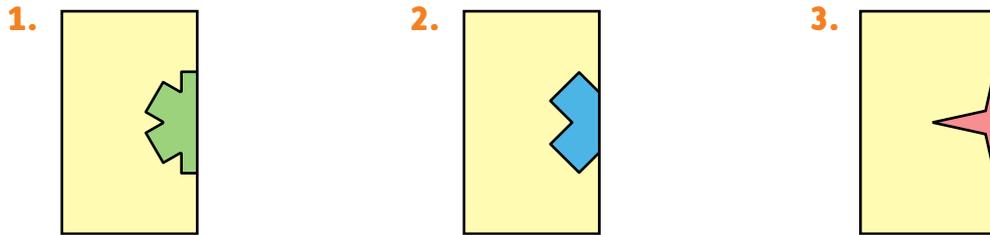
5. Is a line of symmetry

### Activity 2



# Topic 3: Space and shape (geometry)

## Activity 3



## Worksheet 58: Symmetry (2)

1 & 2. Learners' own work

| 3. | Shape                       | A | B | C | D | E | F        | G | H |
|----|-----------------------------|---|---|---|---|---|----------|---|---|
|    | Number of lines of symmetry | 3 | 2 | 2 | 5 | 6 | infinite | 1 | 8 |
|    | Number of sides             | 3 | 4 | 4 | 5 | 6 | 1        | 4 | 8 |

## Extension

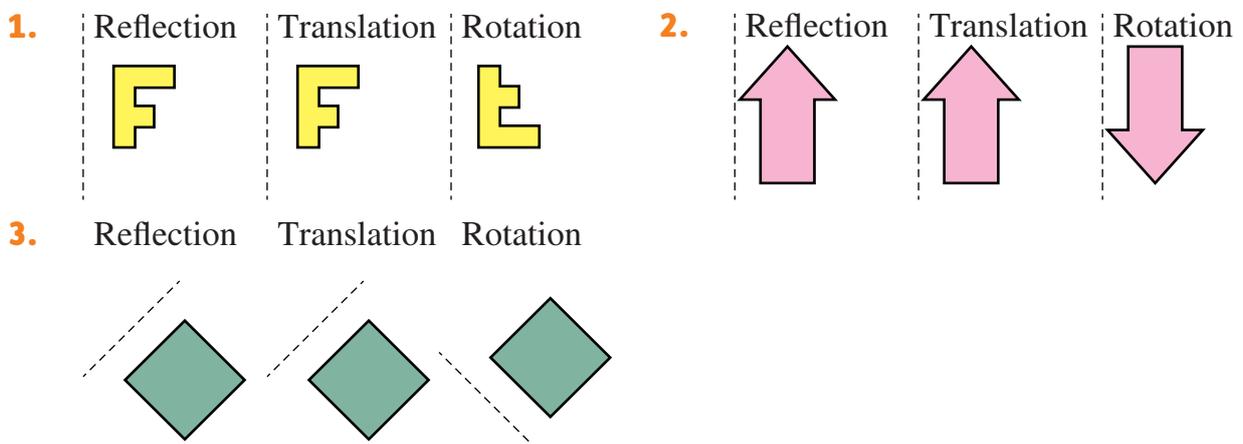
4. In most cases, number of sides equals the lines of symmetry. This is not always the case.

## Worksheet 59: Reflections, rotations and translations

### Activity 1

1. Translation down and left
2. Rotation
3. Reflection

### Activity 2



### Extension Activity

1. Reflection, rotation and transformation all give the same image of the shape.
2. Learners' own work

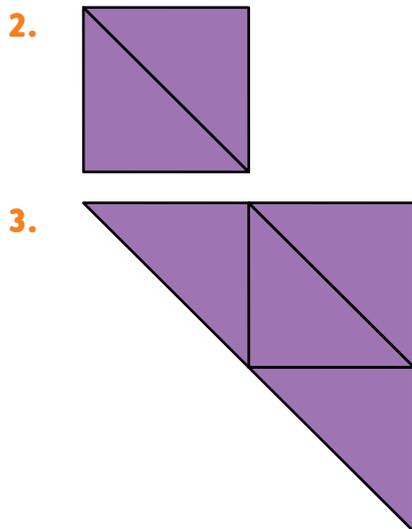
### Worksheet 60: Transformations (1)

#### Activity 1

Learners' own work

#### Activity 2

1. Learners' own work

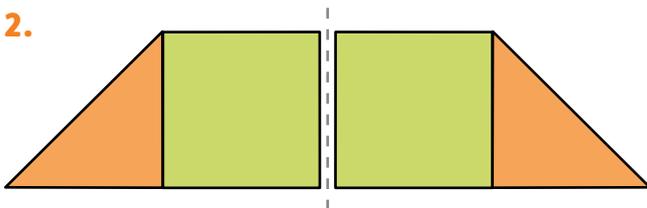


4. Triangle

### Worksheet 61: Transformations (2)

#### Activity 1

1. & 2.



3. Trapezium

## Topic 3: Space and shape (geometry)

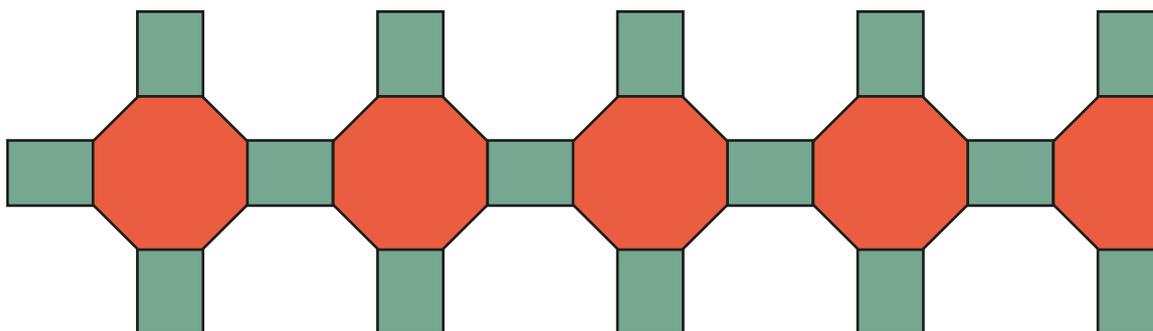
### Activity 2

1. A triangle reflected on its short side, and then reflected on its short side twice more.
2. Parallelogram

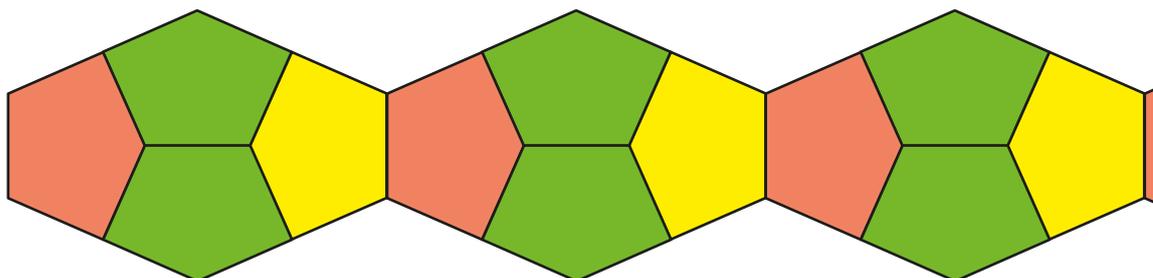
## Worksheet 62: Tessellations

### Activity 1

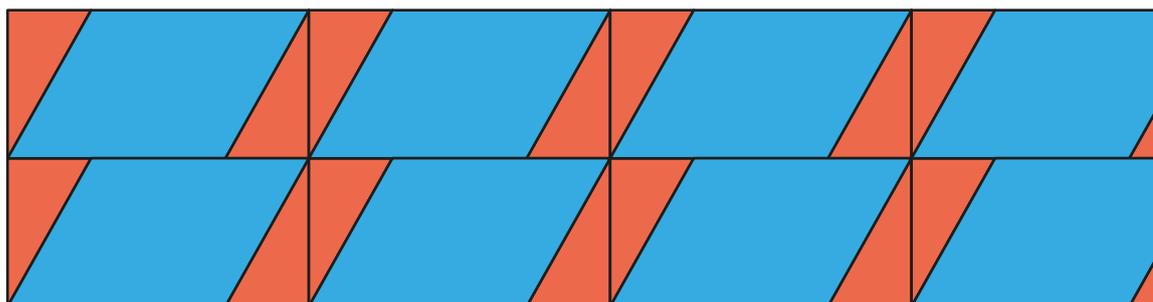
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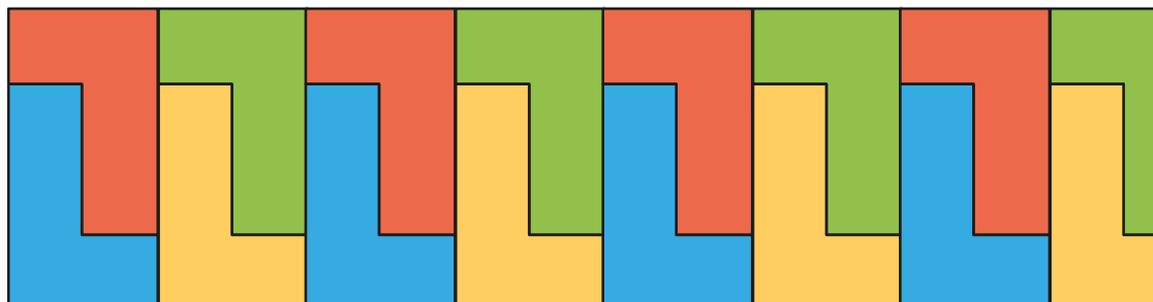
2.



3.



4.

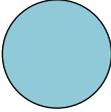
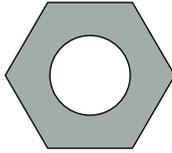
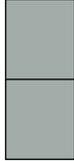
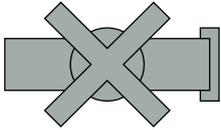
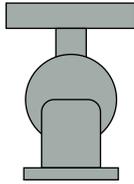
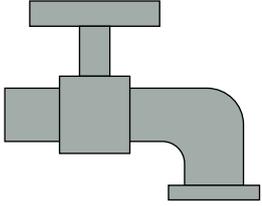
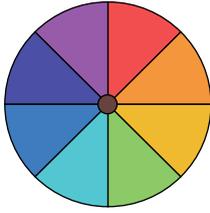
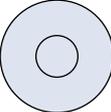


## Activity 2

Learners' own work

## Worksheet 63: Viewing of objects (1)

### Activity 1

|    | 3-D object                                                                          | Top view                                                                            | Front view                                                                           | Side view                                                                             |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. |    |    |    |    |
| 2. |   |   |   |   |
| 3. |  |  |  |  |
| 4. |  |  |  |  |
| 5. |  |  |  |  |
| 6. |  |  |  |  |



## Worksheet 66: Length (1)

### Activity 1

1.  $\pm 3$  m      2.  $\pm 300$  m      3.  $\pm 1,5$  m      4.  $\pm 1$  m      5.  $\pm 0,5$  m

### Activity 2

1. 75 mm      2. 138 mm      3. 42 mm      4. 186 mm

### Activity 3

| Ruler                         | Tape measure                  | Metre stick         | Trundle wheel                         |
|-------------------------------|-------------------------------|---------------------|---------------------------------------|
| width of this book            | height of a door              | length of a car     | length of the playground              |
| length of a slab of chocolate | height of a bookshelf         | height of a giraffe | distance from your house to the shops |
| length of a teaspoon          | how far you jump in a sandput |                     | distance for 100 m sprint             |

## Worksheet 67: Length (2)

### Activity 1

Learners' own work

### Activity 2

1.  $5 \text{ cm} < 52 \text{ mm} < 2\frac{1}{4} \text{ m}; 3 \text{ m}; \frac{1}{4} \text{ km}; 1 \text{ 250 m}$   
 2.  $42 \text{ mm} < 4\frac{1}{2} \text{ cm} < 400 \text{ mm} < 450 \text{ cm} < 4 \text{ 250 cm} < 4 \text{ km}$   
 3.  $6\frac{3}{4} \text{ cm} < 68 \text{ mm} < 63 \text{ cm} < 639 \text{ cm} < 6 \text{ km} < 6 \text{ 090 m}$

### Activity 3

1. 28 cm      2. 123 cm      3. 729,9 cm      4. 24 poles

## Worksheet 68: Length (3)

### Activity 1

1. 65 mm      2. 135 km      3. 2 500 m  
 4. 250 m      5. 2 000 mm      6. 1 200 000 cm

## Topic 4: Measurement

### Activity 2

1. 300 cm
2. 34 600 m
3. 44 579 m
4. 633 m
5. 43 eighths

### Extension Activity

1. 50 km
2. Kirstenbosch

## Worksheet 69: Mass (1)

### Activity 1

Learners' own work

### Activity 2

1. C
2. B
3. C

### Activity 3

1. 65 kg
2. 75 g
3. 0,4 g
4. 80 g

## Worksheet 70: Mass (2)

### Activity 1

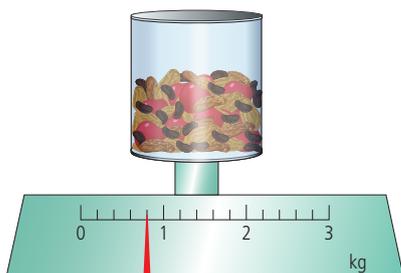
1.  $65 \text{ g} < 680 \text{ g} < 6,5 \text{ kg} < 56 \text{ kg} < 65 \text{ kg}$
2.  $500 \text{ g} < 550 \text{ g} < 1\,500 \text{ g} < 5\frac{1}{2} \text{ kg} < 500 \text{ kg}$
3.  $340 \text{ g} < 430 \text{ g} < 3,4 \text{ kg} < 34 \text{ kg} < 340 \text{ kg}$

### Activity 2

250 g

### Activity 3

- 1.
2. 700 g



## Worksheet 71: Mass (3)

### Activity 1

- |            |           |             |
|------------|-----------|-------------|
| 1. 8 700 g | 2. 2,2 kg | 3. 5,1 kg   |
| 4. 7 100 g | 5. 12 kg  | 6. 35 700 g |

### Activity 2

- |               |          |               |
|---------------|----------|---------------|
| 1. 120 kg     | 2. 100 g | 3. 6 kg 554 g |
| 4. 3 kg 380 g | 5. 18 kg | 6. 9 cakes    |

### Activity 3

- Ansaaf's cat is heavier (4 000 g > 2 900 g)
- 1,150 kg more

## Worksheet 72: Capacity (1)

### Activity 1

- |           |          |           |
|-----------|----------|-----------|
| 1. 4 ℓ    | 2. 10 ml | 3. 120 ml |
| 4. 325 ml | 5. 34 ml |           |

### Activity 2

- 8 ℓ
- $\frac{5}{8}$
- 3 ℓ = 3 000 ml

## Worksheet 73: Capacity (2)

### Activity 1

| millilitres | litres         |
|-------------|----------------|
| 810 000     | 810            |
| 180 000     | 180            |
| 632 000     | 632            |
| 750         | 0,75           |
| 2 750       | $2\frac{3}{4}$ |

## Topic 4: Measurement

### Activity 2

1. 12 litres
2. 36 litres

### Activity 3

1. 50 ml
2. 500 ml
3. one 1,5 litres is more
4. 3 960 ml

## Worksheet 74: Telling the time (1)

### Activity 1

1. Quarter past twelve; 12:15
2. Twenty to eight; 07:40
3. Ten past five; 05:10
4. Quarter past ten; 10:15
5. Seven past five; 05:07
6. Two o'clock; 02:00
7. Three minutes past ten; 10:03
8. Eighteen minutes past nine; 09:18
9. Quarter to nine; 08:45
10. Ten past five; 05:10
11. A minute to one; 01:59
12. Quarter to eleven; 10:45
13. Five past six; 06:05
14. Half past six; 06:30
15. Twenty-three minutes to one; 12:37

Worksheet 75: Telling the time (2)

Activity 1

|                                                                                      |                                                                                       |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>At half past eleven I have tea.</p>                                               |     |
| <p>Sarah has a doctor's appointment at 4:30 this afternoon.</p>                      |     |
|     |     |
| <p>It is now 12:18. I have to be home in half an hour. What time must I be home?</p> |   |
|   | <p>Nineteen minutes past seven</p>                                                    |
| <p>I take my dinner out of the microwave at 19:19.</p>                               |   |
| <p>Father fetches us from school at 15:22.</p>                                       | <p>I wake up to go to school at 6:15 a.m.</p>                                         |
| <p>The art class starts at 17:50.</p>                                                | <p>There is athletics practice at twenty to six this afternoon.</p>                   |
| <p>Mother comes home from work at ten past four in the afternoon.</p>                |  |

## Worksheet 76: Telling the time (3)

### Activity 1

|                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | 6 minutes past midnight                                                             |    |    |
| 11:18 p.m.                                                                          |    |    |    |
| 5 to 7 in the evening                                                               |  | 3:15 p.m.                                                                            |  |
|  | 7:49 p.m.                                                                           |  |  |
| 5:10 a.m.                                                                           |  |  |  |

## Worksheet 77: 12-hour time and 24-hour time

### Activity 1

- |                      |                      |                      |
|----------------------|----------------------|----------------------|
| <b>1.</b> 12:00 a.m. | <b>2.</b> 07:34 p.m. | <b>3.</b> 08:58 p.m. |
| <b>4.</b> 01:27 p.m. | <b>5.</b> 06:46 a.m. | <b>6.</b> 03:16 p.m. |

### Activity 2

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| <b>1.</b> 12:00 | <b>2.</b> 15:34 | <b>3.</b> 08:25 |
| <b>4.</b> 14:13 | <b>5.</b> 02:50 | <b>6.</b> 16:06 |

### Activity 3

- |                      |                 |
|----------------------|-----------------|
| <b>1. a)</b> 06:02   | <b>b)</b> 18:02 |
| <b>2.</b> 05:32      | <b>3.</b> 06:34 |
| <b>4.</b> 73 minutes | <b>5.</b> 07:45 |

## Worksheet 78: Time conversions

### Activity 1

- |                               |                             |
|-------------------------------|-----------------------------|
| <b>1. a)</b> 5 min            | <b>b)</b> 3 hours           |
| <b>c)</b> 240 min             | <b>d)</b> 300 sec           |
| <b>2. a)</b> 103 hours        | <b>b)</b> 128 hours         |
| <b>c)</b> 210 min             | <b>d)</b> 5 hours and 6 min |
| <b>e)</b> 10 days             | <b>f)</b> 168 hours         |
| <b>g)</b> 3 days and 18 hours | <b>h)</b> 8 weeks           |

### Activity 2

- |                      |                 |                 |
|----------------------|-----------------|-----------------|
| <b>1.</b> 55 minutes | <b>2.</b> 08:02 | <b>3.</b> 08:05 |
| <b>4.</b> 5 minutes  | <b>5.</b> 09:04 |                 |

## Worksheet 79: Elapsed time

### Activity 1

- A: 2 hours, 59 min, and 57 seconds (10 797  
B: 4 hours, 11 min, and 48 seconds
- 71 min 51 seconds

## Topic 4: Measurement

### Extension

3. 3,4 min/km

### Activity 2

- |               |          |
|---------------|----------|
| 1. R250       | 2. 19:45 |
| 3. 18 hours   | 4. R936  |
| 5. a) 6 hours | b) 20:00 |

## Worksheet 80: Calendars

### Activity 1

- |                           |                                   |
|---------------------------|-----------------------------------|
| 1. Wednesday              | 2. 10 August                      |
| 3. 14 July                | 4. 7 August                       |
| 5. 3 July                 | 6. 22 days                        |
| 7. 9 August – Women’s Day | 8. 164 days, 9 hours, 45 minutes. |

## Worksheet 81: Temperature (1)

### Activity 1

Learners’ own work

### Activity 2

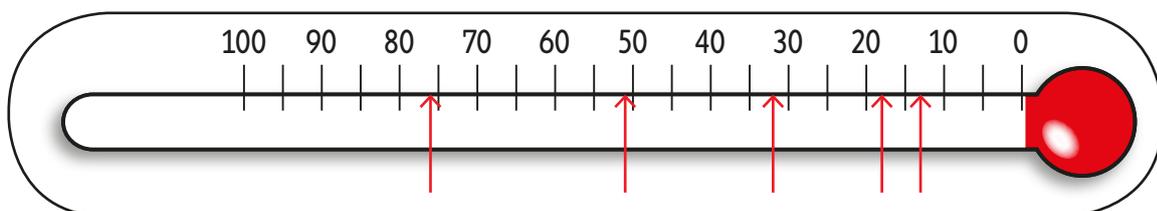
1. 18 °C      2. 45 °C      3. 32 °C      4. 16 °C

### Activity 3

33 °C

## Worksheet 82: Temperature (2)

### Activity 1

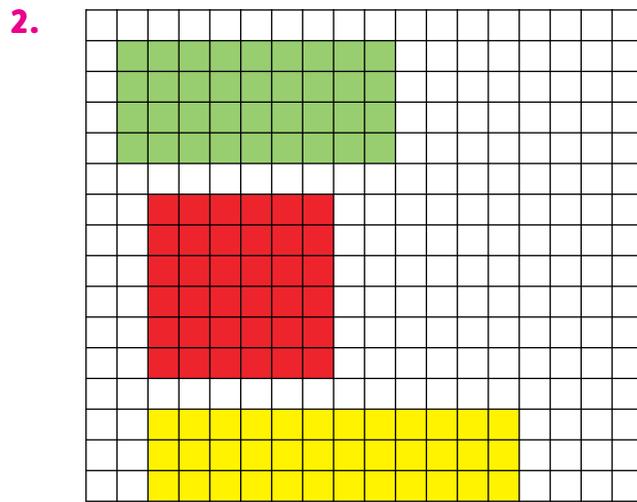




## Topic 4: Measurement

### Activity 3

1. 26 units



3. red: perimeter of 24 units; green: perimeter of 26 units; yellow: 30 units

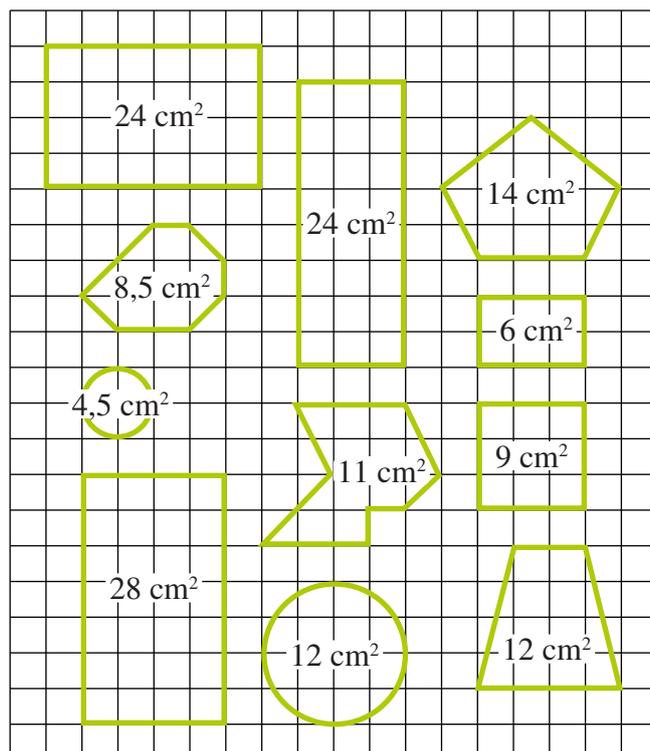
### Extension Activity

1. 10 cm, 10 cm and 14 cm

2. 14,4 cm

## Worksheet 84: Area

### Activity 1



## Activity 2

Learners' own work

## Extension Activity

- 2 units
- a)** 4 litres  
**b)** R60

## Worksheet 85: Volume

### Activity 1

- 10 cm<sup>3</sup>
- 8 cm<sup>3</sup>
- 36 cm<sup>3</sup>
- 56 cm<sup>3</sup>
- 69 cm<sup>3</sup>
- 75 cm<sup>3</sup>

### Activity 2

- 24 cm<sup>3</sup>
- a)** 3 cm  
**b)** 2 cm  
**c)** 4 cm
- $4 \times 2 \times 3 = 24$
- The length  $\times$  breadth  $\times$  height is equal to the number of cubes in the prism

### Extension Activity

- 36 units<sup>3</sup>
- a)** 15 cubes  
**b)** 4 layers

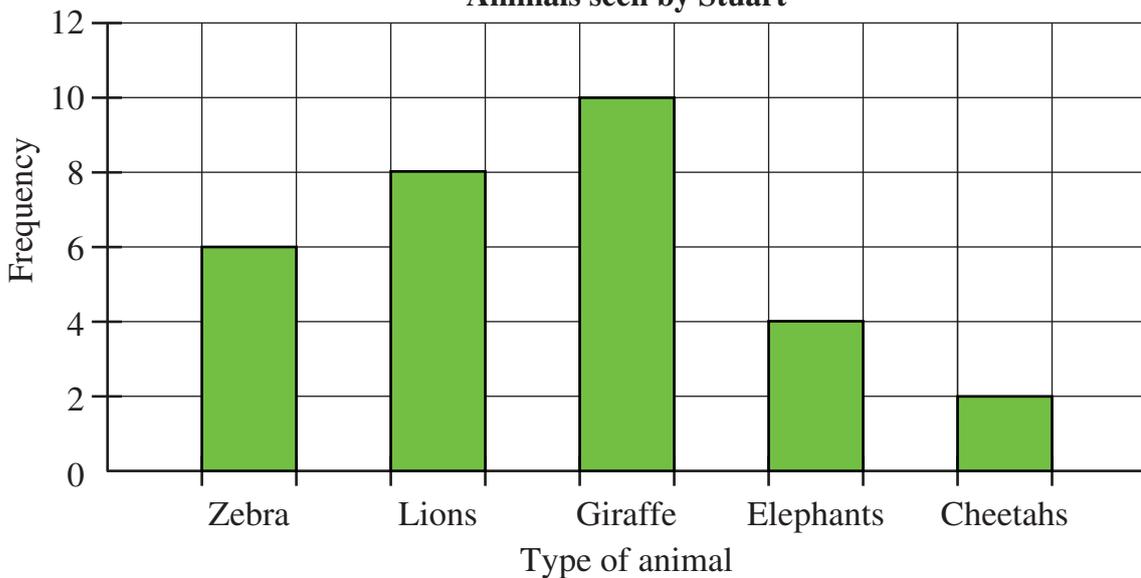
## Worksheet 86: Bar graphs (1)

### Activity 1

1.

| Animal    | Tally | Total |
|-----------|-------|-------|
| Zebra     | I     | 6     |
| Lions     | III   | 8     |
| Giraffe   |       | 10    |
| Elephants |       | 4     |
| Cheetahs  |       | 2     |

2. **Animals seen by Stuart**



3. a) Giraffe  
 b) Cheetahs  
 c) 30 animals

## Worksheet 87: Bar graphs (2)

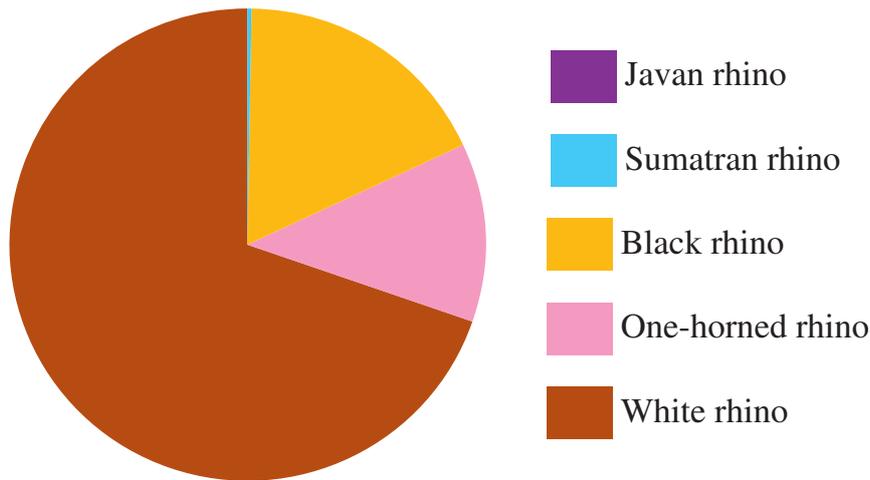
### Activity 1

- 2014
- 547 rhino
- 187 rhino

4. Countries anti-poaching campaigns. Also fewer rhino in the wild means its harder to poach them
5. 5 476 rhino

## Worksheet 88: Pie charts

### Activity 1



### Activity 2

0; 4; 12; 24; 38; 49; 79; 96; 222; 504

## Worksheet 89: Pie charts and pictographs

### Activity 1

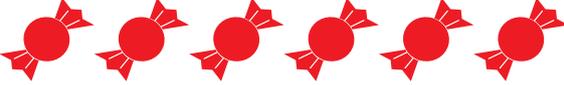
- |    |                                        |                  |
|----|----------------------------------------|------------------|
| 1. | 3; 4; 5; 5; 5; 6; 6; 7; 8              | Mode = 5         |
| 2. | 4; 4; 5; 5; 6; 7; 7; 7                 | Mode = 7         |
| 3. | 14; 15; 15; 16; 18; 19; 22; 23; 23; 30 | Mode = 15 and 23 |
| 4. | 41; 41; 42; 43; 43; 43; 45; 45; 47; 48 | Mode = 43        |
| 5. | 41; 41; 42; 43; 43; 43; 45; 45; 47; 48 | Mode = 43        |

### Activity 2

1. Souvenirs
2. Chocolates and crisps
3. Cooldrinks

## Topic 5: Data handling

### Activity 3

| Item        | Quantity                                                                            |
|-------------|-------------------------------------------------------------------------------------|
| Biltong     |   |
| Sweets      |    |
| Cool drinks |   |
| Chocolates  |   |
| Crisps      |   |
| Souvenirs   |  |

### Worksheet 90: Pictographs

#### Activity 1

1. Car A: 175 km; Car B: 337,5 km
2. 137,5 km
3. Wednesday
4. 3 cars

### Worksheet 91: Probability

#### Activity 1

Learners' own work