

Think & Learn

ANSWERS



# MATHS

SHAPES AND MEASURES



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1.  $1\text{ cm} = 1\text{ cm } 0\text{ mm}$
2.  $7.8\text{ cm} = 7\text{ cm } 8\text{ mm}$
3.  $0.7\text{ cm} = 0\text{ cm } 7\text{ mm}$
4.  $6\text{ cm} = 6\text{ cm } 0\text{ mm}$
5.  $3.9\text{ cm} = 3\text{ cm } 9\text{ mm}$
6.  $9.1\text{ cm} = 9\text{ cm } 1\text{ mm}$
7.  $4.4\text{ cm} = 4\text{ cm } 4\text{ mm}$
8.  $10.3\text{ cm} = 10\text{ cm } 3\text{ mm}$
9.  $0.1\text{ cm} = 0\text{ cm } 1\text{ mm}$
10.  $24.4\text{ cm} = 24\text{ cm } 4\text{ mm}$
11.  $100\text{ cm} = 100\text{ cm } 0\text{ mm}$
12.  $8.8\text{ cm} = 8\text{ cm } 8\text{ mm}$
13.  $11\text{ cm} = 11\text{ cm } 0\text{ mm}$

1.  $12\text{ mm} = 1\text{ cm } 2\text{ mm}$
2.  $88\text{ mm} = 8\text{ cm } 8\text{ mm}$
3.  $230\text{ mm} = 23\text{ cm } 0\text{ mm}$
4.  $49\text{ mm} = 4\text{ cm } 9\text{ mm}$
5.  $10\text{ mm} = 1\text{ cm } 0\text{ mm}$
6.  $140\text{ mm} = 14\text{ cm } 0\text{ mm}$
7.  $64\text{ mm} = 6\text{ cm } 4\text{ mm}$
8.  $121\text{ mm} = 12\text{ cm } 1\text{ mm}$
9.  $156\text{ mm} = 15\text{ cm } 6\text{ mm}$
10.  $600\text{ mm} = 60\text{ cm } 0\text{ mm}$
11.  $5\text{ mm} = 0\text{ cm } 5\text{ mm}$
12.  $26\text{ cm} = 2\text{ cm } 6\text{ mm}$
13.  $9\text{ mm} = 0\text{ cm } 9\text{ mm}$

### Page 6

1.  $5.268\text{km} = 5\text{km } 268\text{m}$
2.  $0.716\text{km} = 0\text{km } 716\text{m}$
3.  $0.367\text{km} = 0\text{km } 367\text{m}$
4.  $1.246\text{km} = 1\text{km } 246\text{m}$
5.  $1.015\text{km} = 1\text{km } 15\text{m}$
6.  $0.094\text{km} = 0\text{km } 94\text{m}$
7.  $0.830\text{km} = 0\text{km } 830\text{m}$
8.  $1.003\text{km} = 1\text{km } 3\text{m}$
9.  $0.070\text{km} = 0\text{km } 70\text{m}$
10.  $24\text{km} = 24\text{km } 0\text{m}$
11.  $0.009\text{km} = 0\text{km } 9\text{m}$
12.  $0.015\text{km} = 0\text{km } 15\text{m}$
13.  $2.743\text{km} = 2\text{km } 743\text{m}$

### Page 8

1.  $a = 3\text{cm } 1\text{mm} = 3.1\text{cm} = 31\text{mm}$
2.  $b = 1\text{cm } 3\text{mm} = 1.3\text{cm} = 13\text{mm}$
3.  $c = 1\text{cm } 7\text{mm} = 1.7\text{cm} = 17\text{mm}$
4.  $d = 1\text{cm } 9\text{mm} = 1.9\text{cm} = 19\text{mm}$
5.  $e = 3\text{cm } 7\text{mm} = 3.7\text{cm} = 37\text{mm}$
6.  $f = 1\text{cm } 0\text{mm} = 1\text{cm} = 10\text{mm}$
7.  $g = 2\text{cm } 6\text{mm} = 2.6\text{cm} = 26\text{mm}$
8.  $h = 3\text{cm } 7\text{mm} = 3.7\text{cm} = 37\text{mm}$

### Page 7

1.  $6000\text{m} = 6\text{km } 0\text{m}$
2.  $7381\text{m} = 7\text{km } 381\text{m}$
3.  $400\text{m} = 0\text{km } 400\text{m}$
4.  $1600\text{m} = 1\text{km } 600\text{m}$
5.  $14980\text{m} = 14\text{km } 980\text{m}$
6.  $586\text{m} = 0\text{km } 586\text{m}$
7.  $9180\text{m} = 9\text{km } 180\text{m}$
8.  $1004\text{m} = 1\text{km } 4\text{m}$
9.  $70\text{m} = 0\text{km } 70\text{m}$
10.  $16500\text{m} = 16\text{km } 500\text{m}$
11.  $4\text{m} = 0\text{km } 4\text{m}$
12.  $704\text{m} = 0\text{km } 704\text{m}$
13.  $14000\text{m} = 14\text{km } 0\text{m}$

### Page 9

1. centimetres
2. metres
3. metres
4. kilometres
5. centimetres
6. millimetres
7. kilometres
8. metres
9. centimetres
10. metres

## Page 10

1.  $0.65\text{kg} = 0\text{kg } 650\text{g}$
2.  $2.43\text{kg} = 2\text{kg } 430\text{g}$
3.  $8.004\text{kg} = 8\text{kg } 4\text{g}$
4.  $5.183\text{kg} = 5\text{kg } 183\text{g}$
5.  $3.250\text{kg} = 3\text{kg } 250\text{g}$
6.  $0.44\text{kg} = 0\text{kg } 440\text{g}$
7.  $7.001\text{kg} = 7\text{kg } 1\text{g}$
8.  $6.999\text{kg} = 6\text{kg } 999\text{g}$
9.  $0.54\text{kg} = 0\text{kg } 540\text{g}$
10.  $0.050\text{kg} = 0\text{kg } 50\text{g}$
11.  $0.075\text{kg} = 0\text{kg } 75\text{g}$
12.  $0.730\text{kg} = 0\text{kg } 730\text{g}$
13.  $0.064\text{kg} = 0\text{kg } 64\text{g}$

## Page 12

1.  $1\text{kg}$
2.  $80\text{kg}$
3.  $20\text{g}$
4.  $3\text{kg}$
5.  $1.5\text{kg}$
6.  $2\text{kg}$
7.  $35\text{kg}$
8.  $1\text{kg}$
9.  $150\text{g}$
10.  $6,000\text{g}$

## Page 11

1.  $2360\text{g} = 2\text{kg } 360\text{g}$
2.  $1860\text{g} = 1\text{kg } 860\text{g}$
3.  $750\text{g} = 0\text{kg } 750\text{g}$
4.  $75,000\text{g} = 75\text{kg } 0\text{g}$
5.  $500\text{g} = 0\text{kg } 500\text{g}$
6.  $1250\text{g} = 1\text{kg } 250\text{g}$
7.  $4590\text{g} = 4\text{kg } 590\text{g}$
8.  $4500\text{g} = 4\text{kg } 500\text{g}$
9.  $5640\text{g} = 5\text{kg } 640\text{g}$
10.  $460\text{g} = 0\text{kg } 460\text{g}$
11.  $3540\text{g} = 3\text{kg } 540\text{g}$
12.  $12,000\text{g} = 12\text{kg } 0\text{g}$
13.  $620\text{g} = 0\text{kg } 620\text{g}$

## Page 13

1.  $15\text{ cm}^2$
2.  $12\text{ cm}^2$
3.  $16\text{ cm}^2$
4.  $8\text{ cm}^2$
5.  $24\text{ cm}^2$
6.  $20\text{ cm}^2$
7.  $18\text{ cm}^2$
8.  $32\text{ cm}^2$
9.  $21\text{ cm}^2$
10.  $8\text{ cm}^2$

Page 14

1.  $112 \text{ m}^2$
2.  $700 \text{ m}^2$
3.  $2400 \text{ m}^2$
4.  $4800 \text{ m}^2$
5.  $3900 \text{ m}^2$
6.  $3000 \text{ m}^2$
7.  $220 \text{ m}^2$
8.  $378 \text{ m}^2$
9.  $2300 \text{ m}^2$
10.  $4050 \text{ m}^2$

Page 16

Exercise 1

1.  $8 \text{ cm}$
2.  $14 \text{ cm}$
3.  $15 \text{ cm}$
4.  $8 \text{ cm}$
5.  $9 \text{ cm}$
6.  $16 \text{ cm}$

Exercise 2

7.  $11 \text{ cm}$
8.  $24 \text{ cm}$
9.  $19 \text{ cm}$
10.  $9 \text{ cm}$
11.  $168 \text{ cm}^2$

Page 15

1.  $41 \text{ cm}^2$
2.  $36 \text{ cm}^2$
3.  $30 \text{ cm}^2$
4.  $34 \text{ cm}^2$
5.  $26 \text{ cm}^2$
6.  $28 \text{ cm}^2$
7.  $26 \text{ cm}^2$
8.  $33 \text{ cm}^2$

Page 17

1.  $620 \text{ cm}^2$
2.  $1250 \text{ cm}^2$
3.  $1440 \text{ cm}^2$
4.  $3200 \text{ cm}^2$
5.  $4300 \text{ cm}^2$
6.  $2425 \text{ cm}^2$
7.  $1500 \text{ cm}^2$
8.  $1020 \text{ cm}^2$

Page 18

1.  $150 \text{ cm}^2$
2.  $36 \text{ cm}^2$
3.  $275 \text{ cm}^2$
4.  $210 \text{ cm}^2$
5.  $81 \text{ cm}^2$
6.  $1100 \text{ cm}^2$
7.  $128 \text{ cm}^2$
8.  $212.5 \text{ cm}^2$

Page 20

1.  $150 \text{ cm}$
2.  $316 \text{ cm}$
3.  $218 \text{ cm}$
4.  $90 \text{ cm}$
5.  $340 \text{ cm}$
6.  $114 \text{ cm}$
7.  $132 \text{ cm}$
8.  $372 \text{ mm}$
9.  $262 \text{ cm}$
10.  $260 \text{ mm}$
11.  $230 \text{ cm}$
12.  $168 \text{ cm}$

Page 19

1.  $180 \text{ cm}^2$
2.  $32 \text{ m}^2$
3.  $52 \text{ cm}^2$
4.  $30 \text{ cm}^2$
5.  $3250 \text{ mm}^2$
6.  $133 \text{ m}^2$
7.  $152 \text{ m}^2$
8.  $300 \text{ cm}^2$

Page 21

1.  $39 \text{ cm}$
2.  $66 \text{ cm}$
3.  $56 \text{ cm}$
4.  $30 \text{ cm}$
5.  $31 \text{ cm}$
6.  $44 \text{ cm}$
7.  $44 \text{ cm}$
8.  $50 \text{ cm}$
9.  $80 \text{ cm}$
10.  $38 \text{ cm}$

### Page 22

1. 48 cm
2. 64 cm
3. 44 cm
4. 500 mm
5. 52 cm
6. 68 cm

### Page 24

1.  $0.64\text{ l} = 0\text{ l }640\text{ ml}$
2.  $3.6\text{ l} = 3\text{ l }600\text{ ml}$
3.  $3\text{ l} = 3\text{ l }0\text{ ml}$
4.  $0.070\text{ l} = 0\text{ l }70\text{ ml}$
5.  $0.56\text{ l} = 0\text{ l }560\text{ ml}$
6.  $1.2\text{ l} = 1\text{ l }200\text{ ml}$
7.  $10\text{ l} = 10\text{ l }0\text{ ml}$
8.  $2.5\text{ l} = 2\text{ l }500\text{ ml}$
9.  $0.050\text{ l} = 0\text{ l }50\text{ ml}$
10.  $0.36\text{ l} = 0\text{ l }360\text{ ml}$
11.  $1.2\text{ l} = 1\text{ l }200\text{ ml}$
12.  $8.6\text{ l} = 8\text{ l }600\text{ ml}$
13.  $0.090\text{ l} = 0\text{ l }90\text{ ml}$

### Page 23

1. Area  $18\text{ cm}^2$  perimeter 18 cm
2. Area  $28\text{ cm}^2$  perimeter 22 cm
3. Area  $9\text{ cm}^2$  perimeter 20 cm
4. Area  $20\text{ cm}^2$  perimeter 24 cm
5. Area  $40\text{ cm}^2$  perimeter 26 cm
6. Area  $96\text{ cm}^2$  perimeter 40 cm
7. Area  $99\text{ cm}^2$  perimeter 40 cm
8. Area  $140\text{ cm}^2$  perimeter 48 cm
9. Area  $192\text{ cm}^2$  perimeter 56 cm
10. Area  $220\text{ cm}^2$  perimeter 62 cm
11. Area  $168\text{ cm}^2$  perimeter 62 cm

### Page 25

1.  $750\text{ ml} = 0\text{ l }750\text{ ml}$
2.  $6200\text{ ml} = 6\text{ l }200\text{ ml}$
3.  $30\text{ ml} = 0\text{ l }30\text{ ml}$
4.  $250\text{ ml} = 0\text{ l }250\text{ ml}$
5.  $1500\text{ ml} = 1\text{ l }500\text{ ml}$
6.  $3500\text{ ml} = 3\text{ l }500\text{ ml}$
7.  $150\text{ ml} = 0\text{ l }150\text{ ml}$
8.  $600\text{ ml} = 0\text{ l }600\text{ ml}$
9.  $5400\text{ ml} = 5\text{ l }400\text{ ml}$
10.  $70\text{ ml} = 0\text{ l }70\text{ ml}$
11.  $8100\text{ ml} = 8\text{ l }100\text{ ml}$
12.  $2160\text{ ml} = 2\text{ l }160\text{ ml}$
13.  $4090\text{ ml} = 4\text{ l }90\text{ ml}$

## Page 26

1. 130 ml
2. 300 ml
3. 450 ml
4. 680 ml
5. 01750 ml  
 $150 \text{ ml} + 250 \text{ ml} + 380 \text{ ml} = 780 \text{ ml}$
6. 1190 ml  
 $140 \text{ ml} + 350 \text{ ml} + 600 \text{ ml} = 1090 \text{ ml}$

## Page 28

1. €8360
2. €5800
3. €2520
4. €6560
5. €120
6. €4000
7. €2360
8. €880

## Page 27

### Exercise 1

1. 101 c
2. 5610c
3. 10011c
4. 1030c
5. 60500c
6. 46005c
7. 80050c
8. 9906c
9. 10900c

### Exercise 2

1. €40.05
2. €61.06
3. €100.10
4. €98.85
5. €420.06
6. €605.55
7. €710.08
8. €990.09
9. €1000

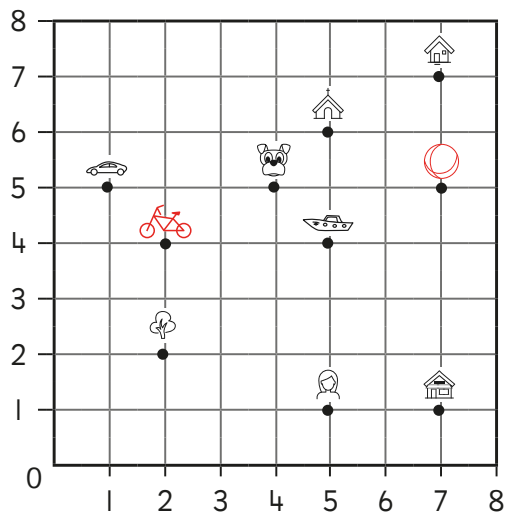
1. Best offer A
2. Best offer A
3. Best offer B
4. Best offer A
5. Best offer A

1. 31 days
2. February
3. 4 months
4. 122 days
5. 72 months
6. 21 days
7. 60 days
8. 48 days
9. May
10. 1461 days
11. 29 days
12. 35 days
13. 93 days
14. answers vary
15. 7 weeks

## Exercise 1

1. (2, 2)
2. (1, 5)
3. (5, 1)
4. (7, 7)
5. (4, 5)
6. (5, 6)
7. (7, 1)
8. (5, 4)

## Exercise 2



1. 48 hours
2. 720 hours
3. 72 hours
4. 420 minutes
5. 4800 sec
6. 12 minutes
7. 8 days
8. 696 hours
9. 2 hours
10. 168 hours
11. 10,080 mins
12. 1464 hours
13. 720 mins
14. 1800 sec
15. 360 minutes

1. 10:00
2. 13:15
3. 18:05
4. 09:30
5. 07:15
6. 23:45
7. 20:50
8. 05:10
9. 04:35
10. 00:05
11. 14:25
12. 03:20
13. 10:10
14. 12:00
15. 21:15
16. 11:20
17. 00:00
18. 17:30
19. 15:50
20. 02:15
21. 22:55
22. 08:10
23. 16:00
24. 19:25
25. 01:45
26. 23:15

1.  $6.58\text{m} = 6\text{m } 58\text{cm}$
2.  $0.76\text{m} = 0\text{m } 76\text{cm}$
3.  $2.33\text{m} = 2\text{m } 33\text{cm}$
4.  $92.43\text{m} = 92\text{m } 43\text{cm}$
5.  $0.84\text{m} = 0\text{m } 84\text{cm}$
6.  $4.16\text{m} = 4\text{m } 16\text{cm}$
7.  $12.73\text{m} = 12\text{m } 73\text{cm}$
8.  $0.08\text{m} = 0\text{m } 8\text{cm}$
9.  $36\text{m} = 36\text{m } 0\text{cm}$
10.  $5\text{m} = 5\text{m } 0\text{cm}$
11.  $0.04\text{m} = 0\text{m } 4\text{cm}$
12.  $0.56\text{m} = 0\text{m } 56\text{cm}$
13.  $0.06\text{m} = 0\text{m } 6\text{cm}$

1.  $1308\text{cm} = 13\text{m } 8\text{cm}$
2.  $580\text{cm} = 5\text{m } 80\text{cm}$
3.  $6\text{cm} = 0\text{m } 6\text{cm}$
4.  $1200\text{cm} = 12\text{m } 0\text{cm}$
5.  $911\text{cm} = 9\text{m } 11\text{cm}$
6.  $2417\text{cm} = 24\text{m } 17\text{cm}$
7.  $2400\text{cm} = 24\text{m } 0\text{cm}$
8.  $90\text{cm} = 0\text{m } 90\text{cm}$
9.  $184\text{cm} = 1\text{m } 84\text{cm}$
10.  $1\text{cm} = 0\text{m } 1\text{cm}$
11.  $10,000\text{cm} = 100\text{m } 0\text{cm}$
12.  $652\text{cm} = 6\text{m } 52\text{cm}$
13.  $50,000\text{cm} = 500\text{m } 0\text{cm}$

1. 12.00pm
2. 4.10pm
3. 8.15am
4. 7.25pm
5. 10.05pm
6. 6.55am
7. 2.50am
8. 12.10am
9. 5.35pm
10. 4.25am
11. 1.05pm
12. 9.30pm
13. 3.45am
14. 2.55pm
15. 5.40am
16. 7.10am
17. 6.35pm
18. 12.15pm
19. 3.55pm
20. 9.00am
21. 11.20am
22. 12.55am
23. 11.10pm
24. 1.20am
25. 3.10am
26. 8.30pm

## Exercise 1

1. 45 mins
2. 1 hr 45 mins
3. 40 mins
4. 40 mins
5. 40 mins
6. 55 mins
7. 45 mins
8. 40 mins
9. 14 hrs 45 mins
10. 12 hrs 20 mins
11. 4 hrs 20 mins
12. 3 hrs 15 mins
13. 6 hrs 35 mins
14. 8 hrs 10 mins

## Exercise 2

1. 20 mins
2. 20 mins
3. 30 mins
4. 25 mins
5. 45 mins
6. 45 mins
7. 2 hrs 35 mins
8. 40 mins
9. 1 hr 45 mins
10. 1 hr 35 mins
11. 3 hrs 10 mins
12. 2 hrs 40 mins
13. 3 hrs 50 mins
14. 2 hrs 50 mins

Page 36

1. seconds
2. minutes
3. hours
4. minutes
5. seconds
6. hours
7. minutes
8. hours
9. *answers may vary*
10. seconds

Page 38

1. seven o'clock
2. quarter to four
3. half past eleven
4. quarter to six
5. quarter past nine
6. half past twelve
7. twelve o'clock / noon / midnight

Page 37

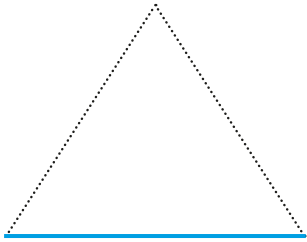
Exercise 1

<b>8.00am</b>	08:00	wakes up
<b>8.30am</b>	08:30	starts school
<b>10.30am</b>	10:30	first break
<b>12.30pm</b>	12:30	second break
<b>2.30pm</b>	14:30	finishes school
<b>4.00pm</b>	16:00	starts homework
<b>5.30pm</b>	17:30	eats dinner
<b>6.00pm</b>	18:00	attends football training
<b>8.15pm</b>	20:15	watches TV
<b>9.05pm</b>	21:05	bedtime

Exercise 2

1. 13 hrs 05 mins
2. 1 hr 30 mins
3. 50 mins
4. 3 hours 0 minutes
5. 215 minutes
6. 4 hours
7. 13:05

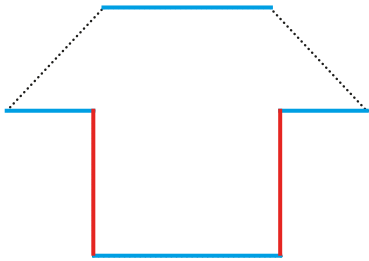
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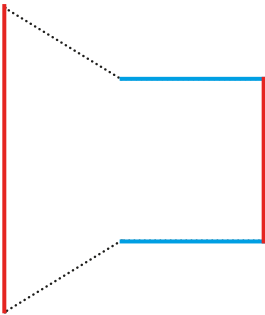
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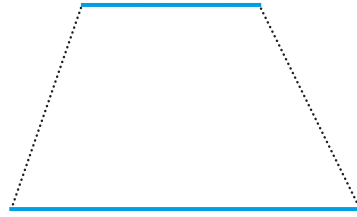
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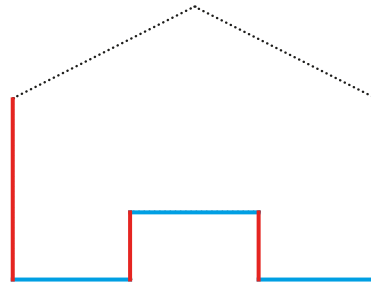
4.



5.



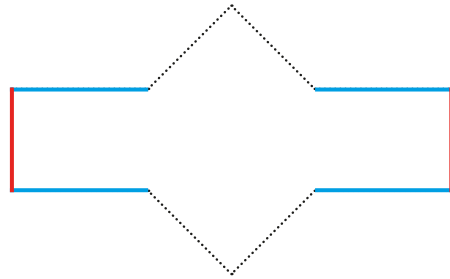
6.

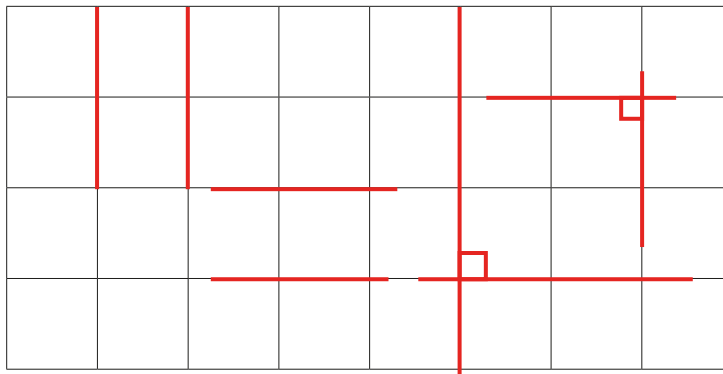
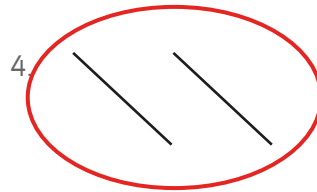
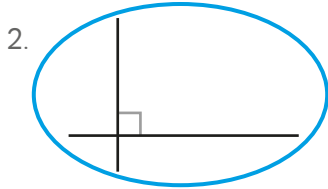
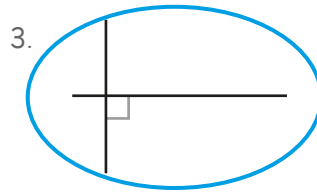
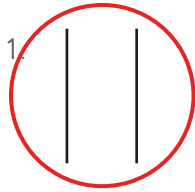


7.

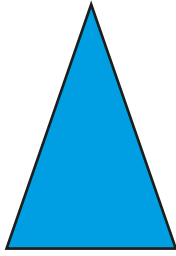


8.

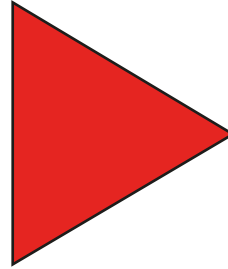




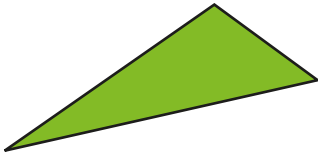
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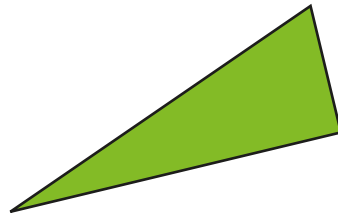
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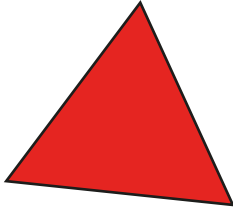
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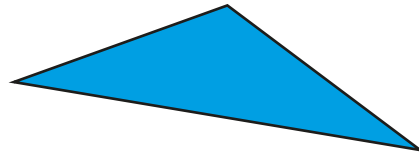
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3



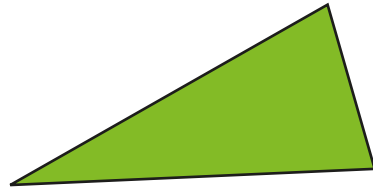
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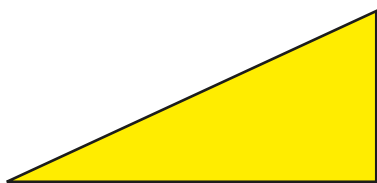
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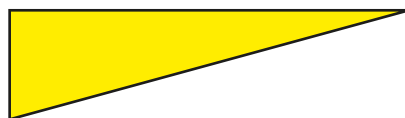
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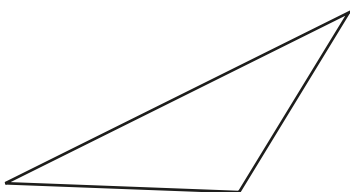
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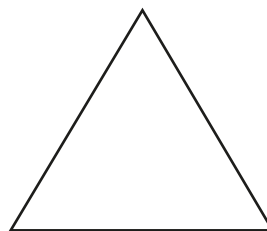
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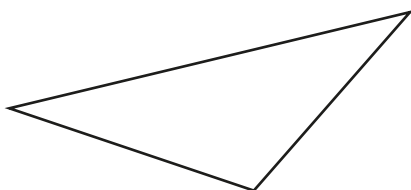
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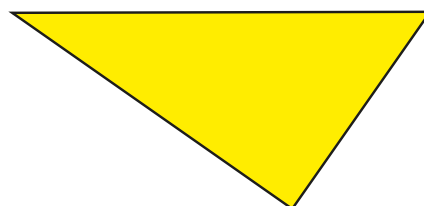
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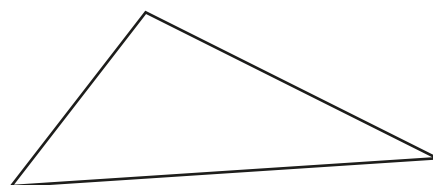
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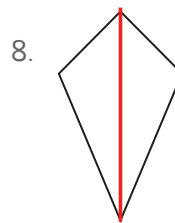
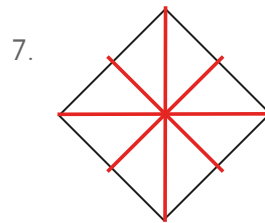
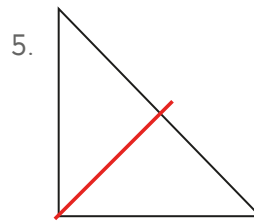
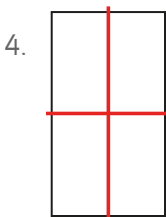
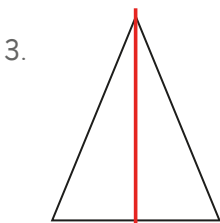
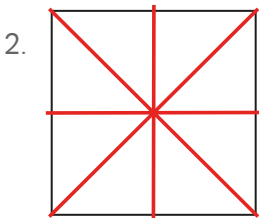
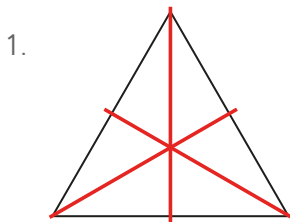
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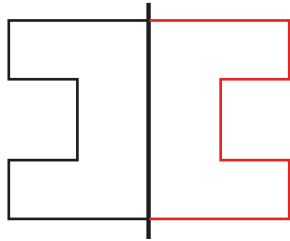
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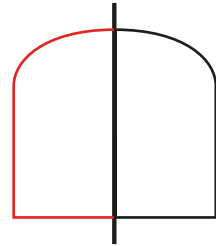
1. isosceles
2. isosceles
3. scalene
4. equilateral
5. scalene
6. isosceles
7. equilateral
8. scalene



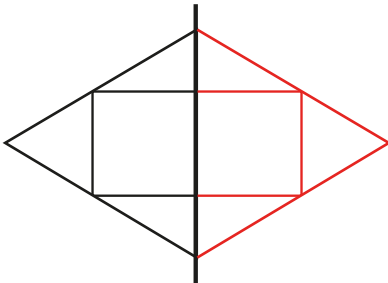
1.



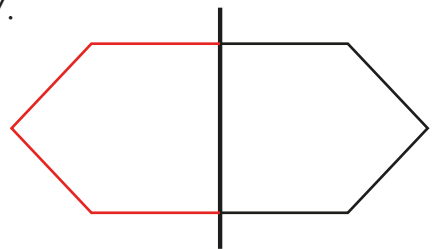
6.



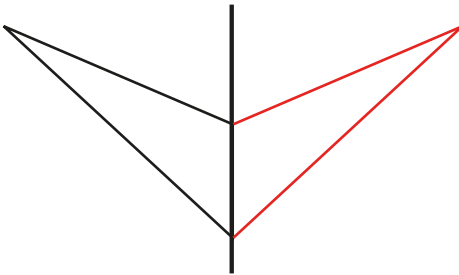
2.



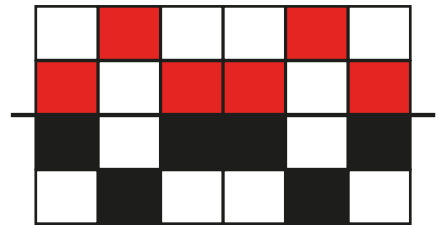
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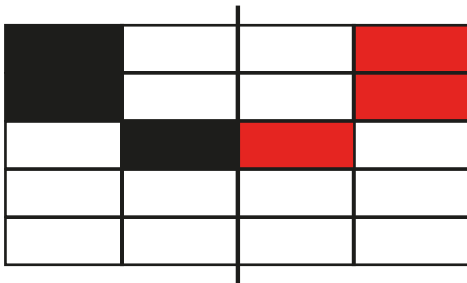
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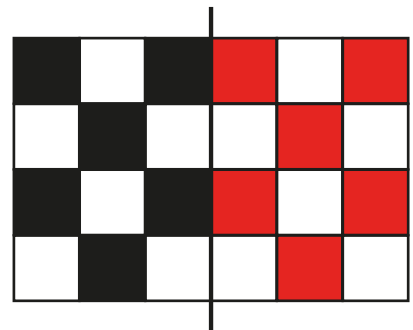
8.



4.



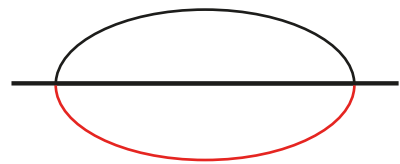
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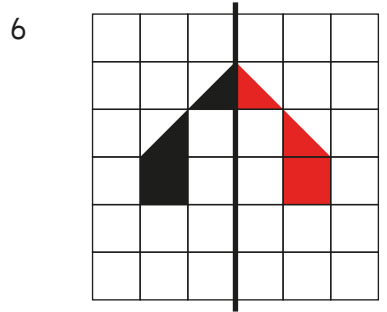
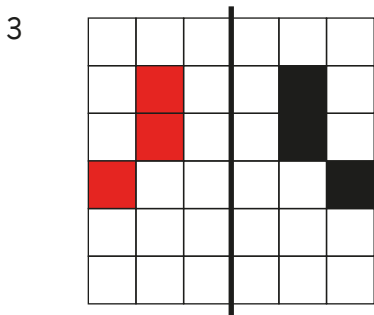
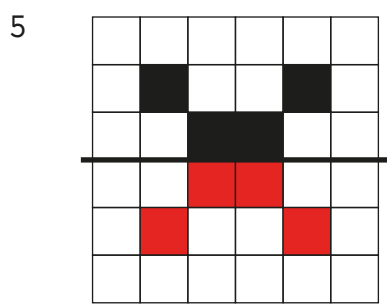
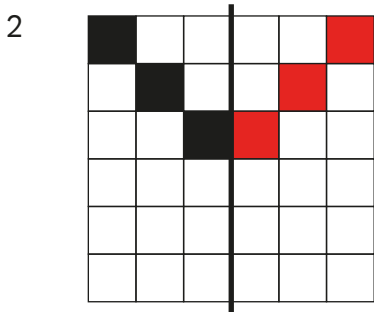
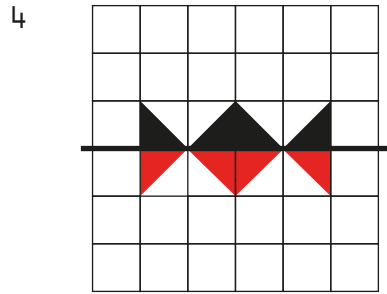
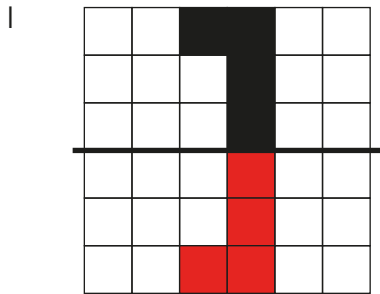


5.

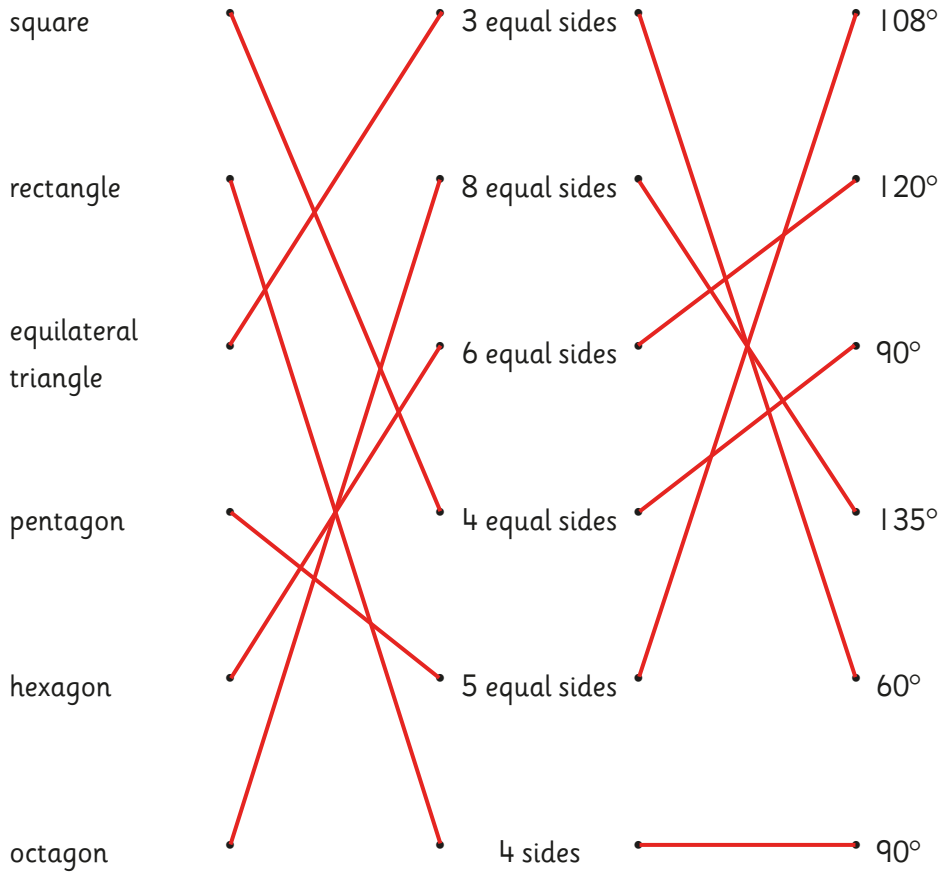


10.

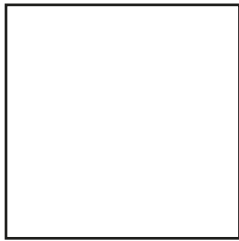




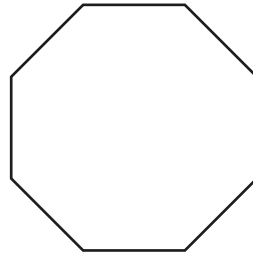
To draw lines correctly the children should start from the point marked 0 on their ruler.



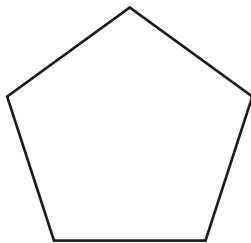
- 1. irregular
- 2. regular
- 3. regular
- 4. irregular
- 5. regular
- 6. regular
- 7. irregular
- 8. irregular



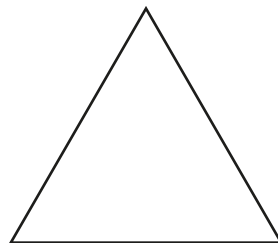
1. square



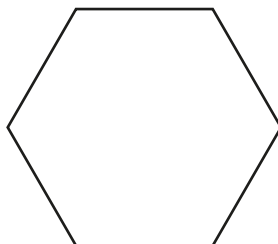
3. octagon



2. pentagon



4. triangle



5. hexagon

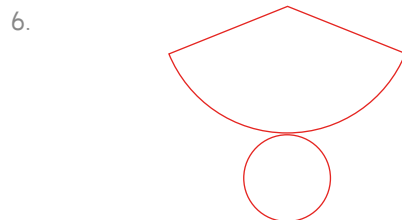
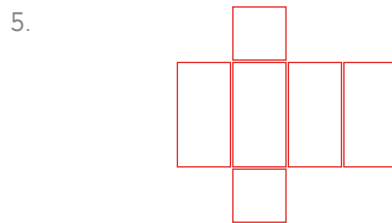
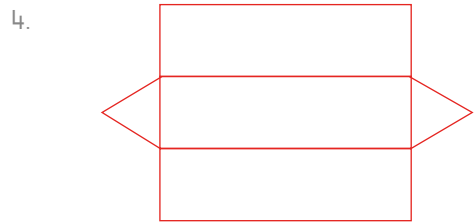
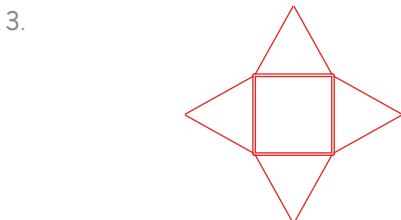
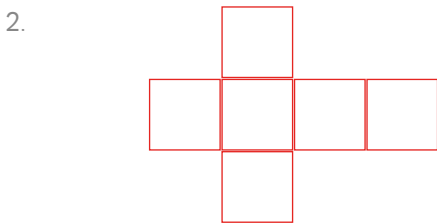
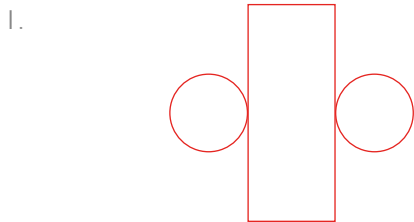
Page 51

- |                     |                         |                             |
|---------------------|-------------------------|-----------------------------|
| 1. cube             | 3. square-based pyramid | 5. cuboid                   |
| 2. triangular prism | 4. cylinder             | 6. triangular-based pyramid |

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Shape	Faces	Edges	Vertices
cone	2	1	1
cube	6	12	8
cuboid	6	12	8
cylinder	3	2	0
square-based pyramid	5	8	5
triangular prism	5	9	6

Page 53



### Page 54

1. closed cube – blue
2. open cube – green
3. open cube – green
4. closed cube – blue
5. closed cube – blue
6. closed cube – blue
7. open cube – green
8. closed cube – blue

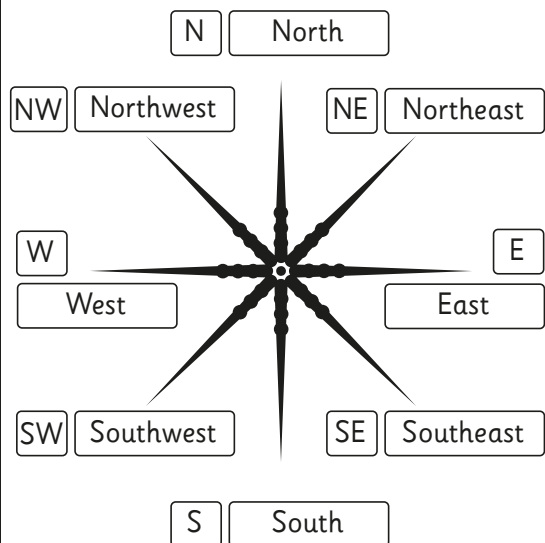
### Page 56

1. obtuse angle
2. one whole turn
3. acute angle
4. right angle
5. obtuse angle
6. angle on a straight line
7. acute angle
8. obtuse angle
9. acute angle
10. obtuse angle
11. acute angle
12. acute angle
13. obtuse angle
14. obtuse angle
15. acute angle
16. obtuse angle

### Page 55

1. right angle
2. obtuse angle
3. acute angle
4. obtuse angle
5. acute angle
6. obtuse angle
7. obtuse angle
8. right angle
9. acute angle
10. right angle

### Page 57



Page 58

1. green circle
2. red circle
3. green circle
4. green circle
5. red circle
6. green circle
7. red circle
8. green circle

Page 60

1.  $25^\circ$
2.  $95^\circ$
3.  $135^\circ$
4.  $30^\circ$
5.  $91^\circ$
6.  $70^\circ$
7.  $50^\circ$
8.  $106^\circ$
9.  $15^\circ$
10.  $162^\circ$

Page 59

1.  $30^\circ$
2.  $45^\circ$
3.  $70^\circ$
4.  $55^\circ$
5.  $5^\circ$
6.  $32^\circ$
7.  $15^\circ$
8.  $87^\circ$
9.  $23^\circ$
10.  $72^\circ$

Page 61

1.  $210^\circ$
2.  $150^\circ$
3.  $150^\circ$
4.  $220^\circ$
5.  $80^\circ$
6.  $275^\circ$
7.  $150^\circ$
8.  $200^\circ$
9.  $120^\circ$
10.  $155^\circ$

Page 62

- a)  $75^\circ$       b)  $105^\circ$       c)  $75^\circ$
- a)  $110^\circ$       b)  $70^\circ$       c)  $110^\circ$
- a)  $130^\circ$       b)  $50^\circ$       c)  $130^\circ$
- a)  $60^\circ$       b)  $120^\circ$       c)  $60^\circ$
- a)  $165^\circ$       b)  $15^\circ$       c)  $165^\circ$
- a)  $20^\circ$       b)  $160^\circ$       c)  $20^\circ$
- a)  $115^\circ$       b)  $65^\circ$       c)  $115^\circ$
- a)  $85^\circ$       b)  $95^\circ$       c)  $85^\circ$
- a)  $135^\circ$       b)  $45^\circ$       c)  $135^\circ$
- a)  $150^\circ$       b)  $30^\circ$       c)  $150^\circ$

Page 64

- a)  $75^\circ$       b)  $30^\circ$
- c)  $60^\circ$
- d)  $65^\circ$       e)  $65^\circ$
- f)  $50^\circ$       g)  $80^\circ$
- a)  $60^\circ$       b)  $120^\circ$       c)  $120^\circ$
- d)  $108^\circ$       e)  $72^\circ$       f)  $72^\circ$       g)  $108^\circ$

Page 63

- $60^\circ$
- $90^\circ$
- $72^\circ$
- $60^\circ$
- $45^\circ$

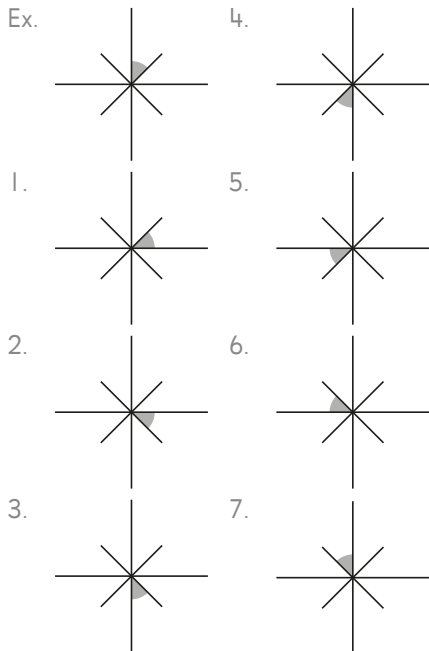
Page 65

- $55^\circ$
- $70^\circ$
- $51^\circ$
- $63^\circ$
- $a = 45^\circ$        $b = 45^\circ$
- $50^\circ$
- $60^\circ$
- $60^\circ$
- $a = 51^\circ$        $b = 51^\circ$
- $75^\circ$

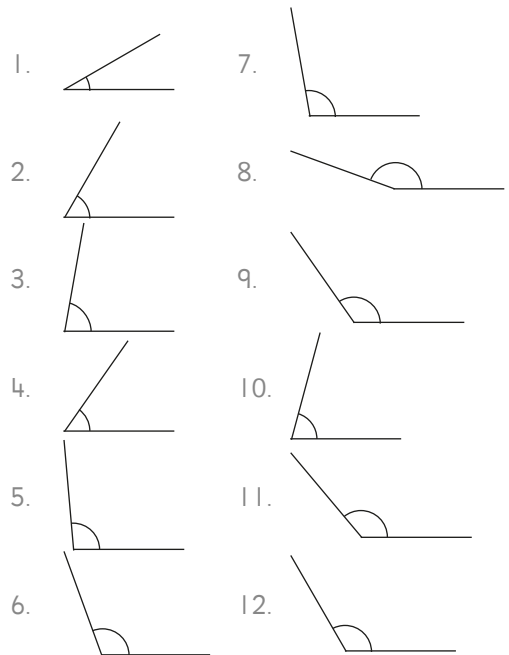
Page 66

1.  $60^\circ$
2.  $140^\circ$
3.  $120^\circ$
4.  $45^\circ$
5.  $80^\circ$
6.  $130^\circ$
7.  $40^\circ$
8.  $95^\circ$
9.  $70^\circ$
10.  $30^\circ$

Page 68



Page 67

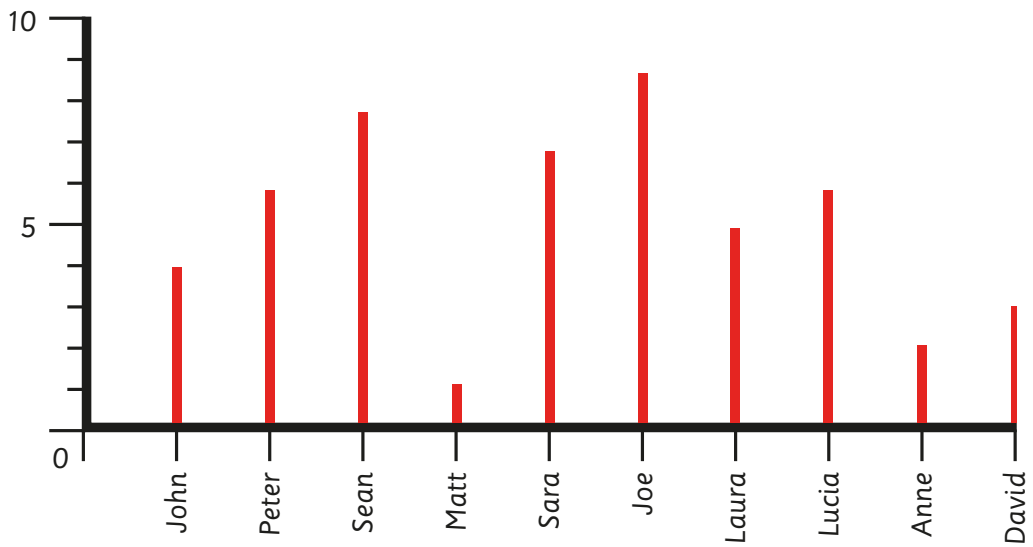


Page 69

1. 3 right angles
2.  $1\frac{1}{2}$  right angles
3. 4 right angles
4.  $\frac{1}{2}$  right angle
5.  $3\frac{1}{2}$  right angles
6. 2 right angles
7.  $2\frac{1}{2}$  right angles
8.  $2\frac{1}{2}$  right angles
9.  $2\frac{1}{2}$  right angles
10.  $1\frac{1}{2}$  right angles
11. 2 right angles
12. 3 right angles

- |    |   |    |    |
|----|---|----|----|
| 1. | 0 | 5. | 5  |
| 2. | 6 | 6. | 8  |
| 3. | 9 | 7. | 30 |
| 4. | 5 | 8. | 20 |

Exercise 1

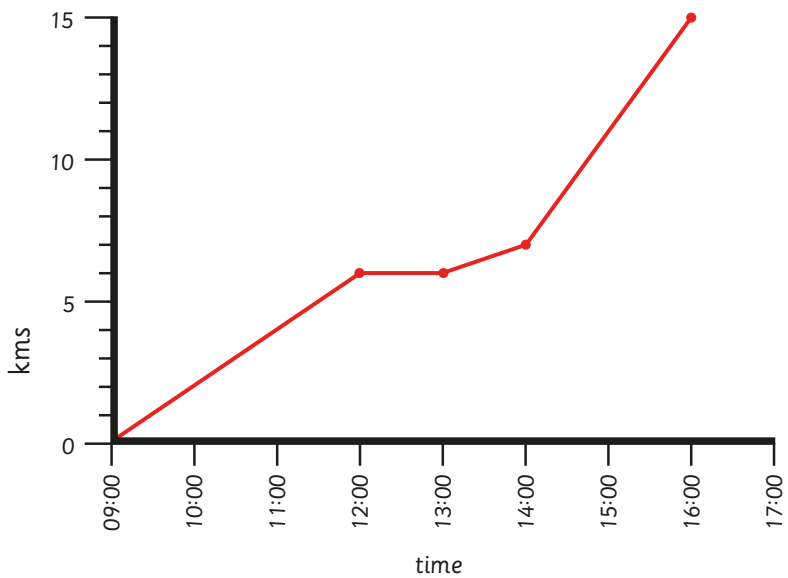


Exercise 2

1. Joe
2. Peter and Lucia
3. 10 stars
4. 51 stars







- |            |          |           |        |
|------------|----------|-----------|--------|
| 1. August  | 5. June  | July      | August |
| 2. January | 6. April | September |        |
| 3. 200 mm  | 7. 30mm  |           |        |
| 4. 20 mm   | 8. 550mm |           |        |

Exercise 1



Exercise 2

1. 16:00
2. 15km
3. 7km
4. False

	Tally	Frequency
book		8
copybook		6
pencil case		7
ruler		3
protractor		2
lunch box		5

- 35 flags
- 10 flags
- Red
- 70 flags
- 135 flags

(The key may vary)

Key:  $\Omega = 2$  animals  
 dog:  $\Omega\Omega\Omega\Omega$   
 cat:  $\Omega\Omega\Omega$   
 hamster:  $\Omega\Omega$   
 bird:  $\Omega\Omega\Omega\Omega\Omega$   
 goldfish:  $\Omega$

	<b>European</b>	<b>Non-European</b>
Boy		Leonardo, Ahmed, Dewang
Girl	Martina, Liliana, Beth, Bora	Molly, Nadesh

	<b>Younger than 10</b>	<b>At least 10 years old</b>
European	Liliana	Beth, Bora, Martina
Non-European	Molly, Nadesh, Leonardo	Dewang, Ahmed

1. 8
2. 6
3. 12
4. 6
5. 11
6. 12
7. 12
8. 7

1. 136
2. 312
3. 560
4. 440
5. 1316
6. 10,176
7. 14,472
8. 6450

1. 282
2. a) 74      b) 73      c) The boys
3. 19
4. a) 480      b) 80      c) Jamie's mark is above the mean.      d) By 1 mark
5. 5. 45