



**BROAD HORIZON**  
— T U I T I O N —

# **11+ Tuition**

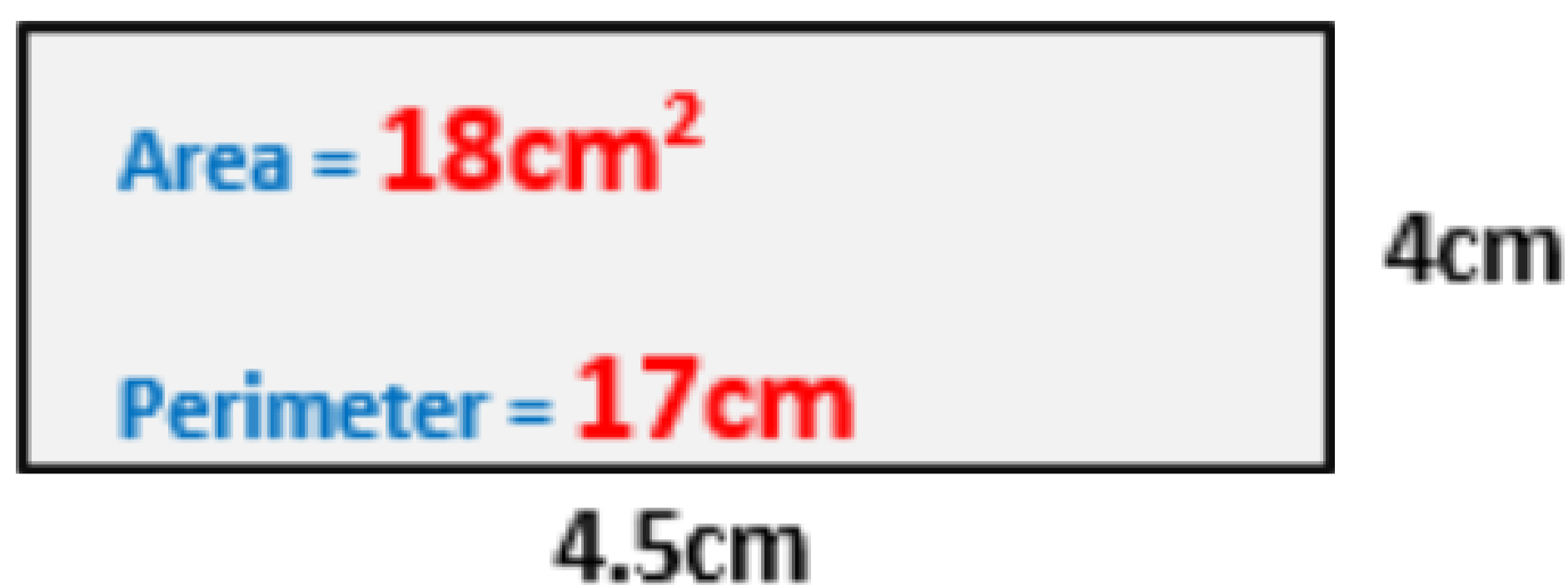
**Year 4**

**Week 17**

**ANSWERS**

## Starter Task – Quick Revision

1. Workout the area and perimeter of this shape (2 marks)



2. Workout  $\frac{6}{7}$  of 609

**522**

3.  $\frac{3}{7} + \frac{2}{3} =$

**23/21**

4. Workout the mean of, 7, 8, 9 and 10

**8.5**

5. What is the median of 7, 11, 8 and 14

**9.5**

6.  $0.1 \times 1000 =$

**100**

7.  $13.2 \div 1000 =$

**0.0132**

8.  $2^4 + 36 \div 9 - (4^2 - 7)$  (2 marks)

**11**

## Exercise C

1. Erratic
2. Scribble
3. Light-hearted
4. Retaliate
5. Immature
6. Perspective
7. Inedible
8. Hilarious
9. Obscure
10. Impersonate

# Converting Decimals to Percentages **Answers**

Convert the following decimals to their equivalent fractions. Please write the fractions in their simplest form, where possible. The first one has been done for you.

1.  $0.27 = \frac{27}{100}$

2.  $0.50 = \frac{1}{2}$

3.  $0.30 = \frac{3}{10}$

4.  $0.64 = \frac{16}{25}$

5.  $0.55 = \frac{11}{20}$

6.  $0.60 = \frac{3}{5}$

7.  $0.45 = \frac{9}{20}$

8.  $0.80 = \frac{4}{5}$

9.  $0.10 = \frac{1}{10}$

10.  $0.66 = \frac{33}{50}$

11.  $0.54 = \frac{27}{50}$

12.  $0.35 = \frac{7}{20}$

13.  $0.51 = \frac{51}{100}$

14.  $0.89 = \frac{89}{100}$

15.  $0.79 = \frac{79}{100}$

16.  $0.71 = \frac{71}{100}$

17.  $0.49 = \frac{49}{100}$

18.  $0.17 = \frac{17}{100}$

# Converting Decimals to Percentages **Answers**

Convert the following decimals to their equivalent fractions. Please write the fractions in their simplest form, where possible. The first one has been done for you.

1.  $0.86 = \frac{43}{50}$

2.  $0.38 = \frac{19}{50}$

3.  $0.54 = \frac{27}{50}$

4.  $0.06 = \frac{3}{50}$

5.  $0.46 = \frac{23}{50}$

6.  $0.22 = \frac{11}{50}$

7.  $0.87 = \frac{87}{100}$

8.  $0.25 = \frac{1}{4}$

9.  $0.14 = \frac{7}{50}$

10.  $0.32 = \frac{8}{25}$

11.  $0.72 = \frac{18}{25}$

12.  $0.74 = \frac{37}{50}$

13.  $0.70 = \frac{7}{10}$

14.  $0.95 = \frac{19}{20}$

15.  $0.20 = \frac{1}{5}$

16.  $0.80 = \frac{8}{10}$

17.  $0.36 = \frac{9}{25}$

18.  $0.95 = \frac{19}{20}$

19.  $0.12 = \frac{3}{25}$

20.  $0.35 = \frac{7}{20}$

21.  $0.38 = \frac{19}{50}$

22.  $0.45 = \frac{9}{20}$

23.  $0.96 = \frac{24}{25}$

24.  $0.09 = \frac{9}{100}$

25.  $0.61 = \frac{61}{100}$

26.  $0.55 = \frac{11}{20}$

27.  $0.60 = \frac{3}{5}$

# Converting Decimals to Percentages **Answers**

Convert the following decimals to their equivalent fractions. Please write the fractions in their simplest form, where possible. The first one has been done for you.

1.  $1.78 = 1 \frac{39}{50}$

2.  $0.73 = \frac{73}{100}$

3.  $0.62 = \frac{62}{100}$

4.  $1.65 = 1 \frac{13}{20}$

5.  $0.08 = \frac{2}{25}$

6.  $0.07 = \frac{7}{100}$

7.  $1.81 = 1 \frac{81}{100}$

8.  $1.55 = 1 \frac{11}{20}$

9.  $1.38 = 1 \frac{19}{50}$

10.  $1.41 = 1 \frac{41}{100}$

11.  $0.84 = \frac{21}{25}$

12.  $0.22 = \frac{11}{50}$

13.  $0.27 = \frac{27}{100}$

14.  $1.47 = 1 \frac{47}{100}$

15.  $1.69 = 1 \frac{69}{100}$

16.  $1.73 = 1 \frac{73}{100}$

17.  $0.55 = \frac{11}{20}$

18.  $0.05 = \frac{1}{20}$

19.  $0.38 = \frac{19}{50}$

20.  $1.31 = 1 \frac{31}{100}$

21.  $1.12 = 1 \frac{3}{25}$

22.  $1.17 = 1 \frac{17}{100}$

23.  $0.11 = \frac{11}{100}$

24.  $0.71 = \frac{71}{100}$

25.  $1.53 = 1 \frac{53}{100}$

26.  $1.24 = 1 \frac{6}{25}$

27.  $0.49 = \frac{49}{100}$

# Converting Decimal Tenths and Hundredths to Fractions

## Answers

A. Write these decimals into the place value chart. Read the place value and write the decimal as a fraction. The first question has been completed for you.

Decimal	Place Value Chart			How many tenths?
0.7	Ones		tenths	<b>7 tenths = <math>\frac{7}{10}</math></b>
	0	.	7	
0.3	Ones		tenths	<b>3 tenths = <math>\frac{3}{10}</math></b>
		.		
zero point two	Ones		tenths	<b>2 tenths = <math>\frac{2}{10}</math></b>
		.		
0.4	Ones		tenths	<b>4 tenths = <math>\frac{4}{10}</math></b>
		.		
0.1	Ones		tenths	<b>1 tenth = <math>\frac{1}{10}</math></b>
		.		
0.9	Ones		tenths	<b>9 tenths = <math>\frac{9}{10}</math></b>
		.		
zero point eight	Ones		tenths	<b>8 tenths = <math>\frac{8}{10}</math></b>
		.		

B. Complete the table.

Decimal	Place Value Chart				How many hundredths?
0.73	Ones		tenths	hundredths	<b>73 hundredths = <math>\frac{73}{100}</math></b>
	0	.	7	3	
0.20	Ones		tenths	hundredths	<b>20 hundredths = <math>\frac{20}{100}</math> or <math>\frac{20}{10}</math></b>
	0	.			
zero point four six	Ones		tenths	hundredths	<b>46 hundredths = <math>\frac{46}{100}</math></b>
	0	.			
nought point nought 4	Ones		tenths	hundredths	<b>4 hundredths = <math>\frac{4}{100}</math></b>
	0	.			
0.42	Ones		tenths	hundredths	<b>42 hundredths = <math>\frac{42}{100}</math></b>
	0	.			
0.66	Ones		tenths	hundredths	<b>66 hundredths = <math>\frac{66}{100}</math></b>
	0	.			
0.99	Ones		tenths	hundredths	<b>99 hundredths = <math>\frac{99}{100}</math></b>
	0	.			

C. What do you think this decimal is as a fraction?

0		t	h	th
0	.	0	0	7

**7 thousandths =  $\frac{7}{1000}$**

# Converting Decimals to Percentages **Answers**

Convert the following decimals to their equivalent percentages. The first one has been done for you.

1.  $0.40 = 40\%$

2.  $0.52 = 52\%$

3.  $0.26 = 26\%$

4.  $0.22 = 22\%$

5.  $0.23 = 23\%$

6.  $0.50 = 50\%$

7.  $0.90 = 90\%$

8.  $0.85 = 85\%$

9.  $0.74 = 74\%$

10.  $0.62 = 62\%$

11.  $0.54 = 54\%$

12.  $0.33 = 33\%$

13.  $0.15 = 15\%$

14.  $0.80 = 80\%$

15.  $0.65 = 65\%$

16.  $0.55 = 55\%$

17.  $0.20 = 20\%$

18.  $0.25 = 25\%$

# Converting Decimals to Percentages **Answers**

Convert the following decimals to their equivalent percentages. The first one has been done for you.

1.  $1.51 = 151\%$

2.  $0.82 = 82\%$

3.  $0.83 = 83\%$

4.  $1.75 = 175\%$

5.  $0.07 = 7\%$

6.  $0.75 = 75\%$

7.  $1.43 = 143\%$

8.  $1.13 = 113\%$

9.  $0.41 = 41\%$

10.  $1.64 = 164\%$

11.  $1.33 = 133\%$

12.  $0.45 = 45\%$

13.  $1.72 = 172\%$

14.  $0.02 = 2\%$

15.  $1.65 = 165\%$

16.  $0.43 = 43\%$

17.  $0.77 = 77\%$

18.  $1.58 = 158\%$

19.  $1.06 = 106\%$

20.  $0.16 = 16\%$

21.  $0.48 = 48\%$

22.  $0.91 = 91\%$

23.  $1.22 = 122\%$

24.  $0.03 = 3\%$

25.  $0.93 = 93\%$

26.  $0.18 = 18\%$

27.  $1.83 = 183\%$

# Converting Percentages to Decimals **Answers**

Convert the following percentages to their equivalent decimals. The first one has been done for you.

1.  $27\% = 0.27$

2.  $19\% = 0.19$

3.  $80\% = 0.80/0.8$

4.  $74\% = 0.74$

5.  $92\% = 0.92$

6.  $86\% = 0.86$

7.  $40\% = 0.40/0.4$

8.  $42\% = 0.42$

9.  $29\% = 0.29$

10.  $71\% = 0.71$

11.  $74\% = 0.74$

12.  $78\% = 0.78$

13.  $59\% = 0.59$

14.  $77\% = 0.77$

15.  $33\% = 0.33$

16.  $95\% = 0.95$

17.  $88\% = 0.88$

18.  $37\% = 0.37$

# Converting Percentages to Decimals **Answers**

Convert the following percentages to their equivalent decimals. The first one has been done for you.

1.  $6\% = 0.06$

2.  $58\% = 0.58$

3.  $74\% = 0.74$

4.  $192\% = 1.92$

5.  $112\% = 1.12$

6.  $10\% = 0.1/0.10$

7.  $5\% = 0.05$

8.  $183\% = 1.83$

9.  $168\% = 1.68$

10.  $110\% = 1.1/1.10$

11.  $3\% = 0.03$

12.  $120\% = 1.2/1.20$

13.  $123\% = 1.23$

14.  $138\% = 1.38$

15.  $57\% = 0.57$

16.  $41\% = 0.41$

17.  $78\% = 0.78$

18.  $87\% = 0.87$

19.  $119\% = 1.19$

20.  $2\% = 0.02$

21.  $135\% = 1.35$

22.  $91\% = 0.91$

23.  $167\% = 1.67$

24.  $1\% = 0.01$

25.  $187\% = 1.87$

26.  $18\% = 0.18$

27.  $83\% = 0.83$

# Converting Fractions to Percentages **Answers**

Convert the following fractions to their equivalent percentage. The first one has been done for you.

1.  $\frac{8}{100} = 8\%$

2.  $\frac{42}{100} = 42\%$

3.  $\frac{27}{100} = 27\%$

4.  $\frac{49}{100} = 49\%$

5.  $\frac{22}{100} = 22\%$

6.  $\frac{71}{100} = 71\%$

7.  $\frac{9}{10} = 90\%$

8.  $\frac{32}{100} = 32\%$

9.  $\frac{55}{100} = 55\%$

10.  $\frac{78}{100} = 78\%$

11.  $\frac{24}{100} = 24\%$

12.  $\frac{8}{10} = 80\%$

13.  $\frac{99}{100} = 99\%$

14.  $\frac{65}{100} = 65\%$

15.  $\frac{8}{20} = 40\%$

16.  $\frac{69}{100} = 69\%$

17.  $\frac{73}{100} = 73\%$

18.  $\frac{86}{100} = 86\%$

19.  $\frac{20}{100} = 20\%$

20.  $\frac{60}{100} = 60\%$

21.  $\frac{9}{20} = 45\%$

22.  $\frac{17}{100} = 17\%$

23.  $\frac{65}{100} = 65\%$

24.  $\frac{7}{10} = 70\%$

25.  $\frac{22}{100} = 22\%$

## Challenge

26.  $\frac{4}{50} = 8\%$

27.  $\frac{13}{20} = 65\%$

28.  $\frac{5}{25} = 20\%$

29.  $\frac{45}{50} = 90\%$

30.  $\frac{5}{10} = 50\%$

# Find the Equivalent Fractions **Answers**

Fill in the numerator to make the fractions equivalent.

Question	Answer
1	2
2	2
3	2
4	2
5	6
6	2
7	2
8	4
9	6
10	4
11	14
12	6

Question	Answer
13	8
14	10
15	38
16	12
17	10
18	4
19	6
20	8
21	10
22	14
23	36
24	22

Question	Answer
1	2
2	4
3	4
4	2
5	10
6	16
7	4
8	8
9	20
10	2
11	10
12	22

# Find the Equivalent Fractions **Answers**

Complete the following fractions to make the fractions equivalent.

Question	Answer
1	4
2	5
3	16
4	5
5	8
6	8
7	1
8	16
9	1
10	6
11	20
12	4

Question	Answer
13	5
14	1
15	6
16	2
17	4
18	10
19	6
20	10
21	5
22	2
23	1
24	6

## Comprehension Test 19

---

- Q1 D**  
*A beautifully carved chest*
- Q2 A**  
*Complicated*
- Q3 D**  
*Noun*
- Q4 B**  
*The shopkeeper told her*
- Q5 C**  
*Proper noun*
- Q6 A**  
*Motif*
- Q7 B**  
*They use it to represent the universe*
- Q8 C**  
*Hard*
- Q9 B**  
*The stranger felt sorry for them*
- Q10 C**  
*To remind them that the box had been very important to them*

## Comprehension Test 20

---

- Q1 B**  
*Decaying*
- Q2 D**  
*Adverb*
- Q3 A**  
*Slightly upset by the event taking place*
- Q4 C**  
*Grumbled*
- Q5 C**  
*Simile*
- Q6 B**  
*Alliteration*
- Q7 D**  
*Frightened but interested*
- Q8 D**  
*It dangled above the island*
- Q9 C**  
*To signal that he was ready*
- Q10 D**  
*There it is!*

# TYPE FIFTEEN:

4

J

16th

S

N

I

O

I

RIP

A

B

C

D

E

D

N

A

N

AT

IS

T

16th

11th

C

## Test 15

1. monkeys like to eat bananas
2. how long is it until the weekend
3. when will the postman come
4. where are my shoes
5. chickens hatch out of eggs
6. the beds were uncomfortable and lumpy
7. we do our homework at the weekend
8. you can learn new things at school
9. we get milk from cows
10. why is the grass green

## Cloze Wordbank Test 5

---

- Q1** **E**  
*behind*
- Q2** **F**  
*forbidden*
- Q3** **D**  
*upon*
- Q4** **I**  
*demanded*
- Q5** **J**  
*fascinating*
- Q6** **C**  
*fairies*
- Q7** **H**  
*understandably*
- Q8** **A**  
*disbelieving*
- Q9** **G**  
*camera*
- Q10** **B**  
*depicted*

## Cloze Wordbank Test 6

---

- Q1** **H**  
*powered*
- Q2** **B**  
*leading*
- Q3** **M**  
*designed*
- Q4** **N**  
*break*
- Q5** **E**  
*record*
- Q6** **C**  
*attempt*
- Q7** **J**  
*current*
- Q8** **F**  
*extremely*
- Q9** **G**  
*disintegrate*
- Q10** **I**  
*heavy*

## Antonyms: Select the Word Test 7

---

**Q1** **E**  
*discourage*

**Q2** **A**  
*contract*

**Q3** **B**  
*stingy*

**Q4** **D**  
*brighten*

**Q5** **C**  
*seldom*

**Q6** **D**  
*indefinite*

**Q7** **E**  
*coward*

**Q8** **C**  
*healthy*

**Q9** **B**  
*accidental*

**Q10** **E**  
*opaque*

**Q11** **D**  
*defeat*

**Q12** **A**  
*vice*

**Q13** **E**  
*tiny*

**Q14** **B**  
*strong*

**Q15** **C**  
*innocent*

## Test 11 Spelling Mistake

---

- Q1 E *abreviate* → *abbreviate*  
Q2 C *marinayte* → *marinate*  
Q3 C *harbore* → *harbour*  
Q4 D *vaypour* → *vapour*  
Q5 A *ilusion* → *illusion*  
Q6 E *basc* → *bask*  
Q7 B *lesiure* → *leisure*  
Q8 B *colaborate* → *collaborate*  
Q9 D *frantik* → *frantic*  
Q10 C *organysed* → *organised*

## Test 12 Change a Letter

---

- Q1 TABLE  
Q2 SHOCK  
Q3 BLEAK  
Q4 BOLD  
Q5 PERMIT  
Q6 EAST  
Q7 GRADE  
Q8 SHOUT  
Q9 POLICY  
Q10 PAVE  
Q11 HUNTER  
Q12 CLARITY

## Test 13 Synonyms

---

- Q1 D *scattered*  
Q2 E *perspire*  
Q3 D *unhappy*  
Q4 C *destroy*  
Q5 A *feisty*  
Q6 C *distant*  
Q7 D *change*

## Test 14 Fill the Letters

---

- Q1 ACCURATE  
Q2 STRANGE  
Q3 DRAWN  
Q4 PATTERN  
Q5 RESEMBLE

- Q6 DEVELOP  
Q7 CAPABLE  
Q8 FRONTIER  
Q9 SUSTAINABLE  
Q10 DISCOVER

## Test 15 Cloze

---

- Q1 *roaming*  
Q2 *contract*  
Q3 *suggesting*  
Q4 *sovereign*  
Q5 *inhabitants*  
Q6 *consented*  
Q7 *savage*  
Q8 *assistance*  
Q9 *vanquished*  
Q10 *traitor*  
Q11 *blessing*  
Q12 *authority*

## Test 16 Rearrange the Words

---

- Q1 *There are countless stars in the sky.*  
Q2 *The blue car whizzed along the quiet road.*  
Q3 *The arsonist fled the scene of his crime.*  
Q4 *Several of my colleagues have decided to retire this year.*  
Q5 *It's becoming increasingly difficult to justify his actions.*  
Q6 *The politician had developed into a formidable adversary.*  
Q7 *My watch has stopped working because the battery has run out.*  
Q8 *Disease and famine have hindered the country's progress. OR Famine and disease have hindered the country's progress.*

## Test 17 Antonyms

---

- Q1 E *awkward*  
Q2 A *disobey*  
Q3 B *inattentive*  
Q4 C *unfulfilled*  
Q5 D *ignore*  
Q6 B *reasonable*  
Q7 C *focused*

## Test 31 Fill the Letters

---

- Q1**    **ABRUPT**
- Q2**    **BOISTEROUS**
- Q3**    **MUNDANE**
- Q4**    **PROSPEROUS**
- Q5**    **INTREPID**
- Q6**    **CONTROVERSY**
- Q7**    **STRATEGY**
- Q8**    **CALAMITY**
- Q9**    **DESTITUTE**
- Q10**    **REPLENISH**

## **Section 5 — Rotate the Figure**

**1. C**

The figure has been rotated 90 degrees clockwise. Options A and B are the wrong shape. Option D is a reflection.

**2. B**

The figure has been rotated 270 degrees clockwise (or 90 degrees anticlockwise). The trophy in option A is the wrong shape. In options C and D, the ribbons have the wrong shadings.

**3. A**

The figure has been rotated 180 degrees. In option B, there are two arrows missing and the bird's head is black. In option C, all the arrowheads have the wrong shading. Option D is a rotated reflection.

**4. D**

The figure has been rotated 180 degrees. Option A is a rotated reflection. Option B has the wrong shading. Option C is the wrong shape.

**5. A**

The figure has been rotated 180 degrees. Option B is a reflection. Option C has the wrong shading. In option D, the arrows are pointing in the same direction.

## **Section 6 — Complete the Grid**

**1. D**

Working from left to right, the white shape takes the shading of the large shape. The large shape turns white. The dashed and solid outlines swap over.

**2. E**

Working from left to right, the whole figure reflects across. The grey shapes turn white and the white shapes turn grey.

**3. B**

Each figure (white star, black triangle and hatched square) only appears once in each row and column.

**4. B**

Working from left to right, the cross rotates 45 degrees clockwise and the shapes move to stay in the same part of the cross. One extra shape turns black in each grid square.

# **ASSESSMENT TEST 9**

## **Section 1 — Rotate the Figure**

**1. A**

The figure has been rotated 90 degrees clockwise. Option B is a rotated reflection. Option C has the wrong shading and is the wrong shape. Option D is the wrong shape.

**2. A**

The figure has been rotated 180 degrees. Option B is a rotated reflection. Option C is the wrong shape. In option D, the shadings of the two inner shapes have swapped.

**3. D**

The figure has been rotated 180 degrees. In option A, the large flower is grey. In option B, there is an extra flower. Option C is a rotated reflection.

**4. D**

The figure has been rotated 90 degrees clockwise. Options A and C are the wrong shape. Option B has the wrong shading.

## **Section 2 — Odd One Out**

**1. B**

In all other figures, the hatched shape is at the back.

**2. A**

All other figures have six sides.

**3. C**

In all other figures, the smallest smoke cloud is directly above the black semicircle.

**4. C**

In all other figures, the top two hearts are 180 degree rotations of the bottom two hearts.

**5. A**

In all other figures, the small shape is the same as the top half of the large shape, only smaller and a different colour. (In A, the shape is the same as a quarter of the large shape.)

## **Section 3 — Complete the Series**

**1. B**

The whole figure reflects across in each series square. The shading of the semicircle alternates between cross-hatched and black.

**2. A**

The figure rotates 90 degrees clockwise in each series square and the star gains a point.

**3. C**

In each series square, the white circle gets bigger and the whole figure rotates 180 degrees.

**4. C**

In each series square, the white square loses a dot. The figure reflects across in each series square (the position of the white square alternates between the right and the left of the series square).

**5. B**

In each series square, the black line gets longer. The number of triangles at the top alternates between one and three.

## **Section 4 — Complete the Pair**

**1. A**

The figure reflects across and the shadings of the shapes swap over.

**2. A**

The circle gains an extra line.

**3. C**

The figure reflects across and the ellipse at the bottom gets bigger.

**4. B**

*The shape at the front moves to the back.*

**5. E**

*The lines below the shape move up into the shape.  
The figure then rotates 45 degrees clockwise.*

## **Section 5 — Look at the Figure from the Right**

**1. C**

*There should be a grey cube at the back of the figure,  
on the bottom, which rules out options A, B and D.*

**2. D**

*There should be a white block two cubes high on the left  
of the grey block, which rules out options A, B and C.*

**3. C**

*There should be a white block three cubes long at  
the top of the figure, which rules out option A. There  
should be a white cube at the front of the figure, on  
the bottom, which rules out options B and D.*

**4. B**

*There should be a white block two cubes high  
on top of a white cube at the front of the  
figure. This rules out options A, C and D.*

## **Section 6 — Find the Figure Like the First Two**

**1. D**

*All figures must have one thick jagged line made  
up of four shorter lines inside an ellipse.*

**2. B**

*All figures must have three grey shapes and one white shape.*

**3. C**

*In all figures, there must be a white line at the  
front, going diagonally down to the right.*

**4. A**

*All figures must have a four-sided shape at the top.*

**5. D**

*All figures must have three rings. Two must be  
the same colour and one must be different. The  
grey rings must be in front of the black rings.*

## Quick Lesson Recap

1. Convert the following decimals into percentages

a. 0.25

**25%**

b. 0.02

**2%**

c. 0.5

**50%**

d. 0.2

**20%**

2. Convert the following percentages into fractions

a. 30%

**$\frac{3}{10}$**

b. 45%

**$\frac{9}{20}$**

c. 70%

**$\frac{7}{10}$**

d. 80%

**$\frac{2}{5}$**

3. Convert the following fractions into percentages

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

**40%**

b.  $\frac{6}{8}$

**75%**

c.  $\frac{9}{15}$

**60%**

## Vocabulary 15

### Exercise A

1. Invaluable
2. Insufficient
3. Indescribable
4. Hoarse
5. Junction
6. Insert
7. Lifelong
8. Effect
9. Opponent
10. Epic

### Exercise B

1. Effect
2. Lifelong
3. Indescribable
4. Insufficient
5. Opponent
6. Insert
7. Epic
8. Invaluable
9. Junction
10. Hoarse