FSCE STYLE
Entrance Test
for Entry into Year 7

MOCK 3 PAPER 3

Name:

_____

Primary School:

_____

Test Date:

_____

40 minutes

Each section is timed separately.

Read the instructions at the start of each section.

Section 1: Multiple Choice

Instructions

Read each question carefully.

You can use the space after each question for working out, but you will not get any marks for your working out.

Answer by shading one of the ovals **A–D** on your answer sheet.

There is only **one** correct answer.

Shade only **one** oval for each question.

Example

i	A book costs £4.50. How much would 7 books cost?

    A   £30.50

    B   £31.50

    C   £32.50

    D   £28.50

The correct answer is **B**.

You have **20 minutes** for this section.

There are **25 questions** to answer.

Section 1: Multiple Choice

1. Round 22.876 to 2 decimal places.

    A   22

    B   22.97

    C   22.87

    D   22.88

2. What is the product of 12 and 8.5?

    A   102

    B   108

    C   98

    D   102.5

3. Calculate 23.6 + 14.9 =

    A   38.2

    B   37.4

    C   38.5

    D   37.7

4. $(4X)^3 = 512$

What is the value of X?

    A   2

    B   4

    C   8

    D   16

Section 1: Multiple Choice

5. Jane is watching birds play in her garden. She noted that 3 out of 7 were pigeons. She recorded 42 birds in total. How many birds were not pigeons?

A   10

B   15

C   18

D   24

6. A school has 480 pupils. 40% of the pupils are boys. 25% of the girls wear glasses. How many girls wear glasses?

A   72

B   192

C   288

D   55

7. A bag contains 4 red counters, 3 blue counters and 5 green counters. One counter is picked at random.

What is the probability that the counter is not green?

A $\frac{2}{6}$

B $\frac{5}{12}$

C $\frac{7}{12}$

D $\frac{3}{12}$

8. Which is the smallest number?

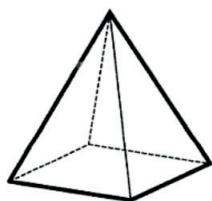0.4 $\frac{3}{5}$ $\frac{2}{3}$ 0.25

A   0.4

B $\frac{3}{5}$

C $\frac{2}{3}$

D   0.25

Section 1: Multiple Choice

9. Jasmine pours out 300ml of juice from a full jug. She has poured out ⅜ of the juice in the jug. How much juice was in the jug to start with?
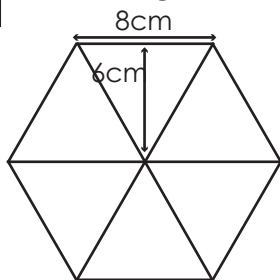
A　500ml

B　750ml

C　600ml

D　800ml

10. The diagram shows a square-based pyramid.

How many edges does the pyramid have?

A　5

B　6

C　7

D　8

11. The hexagon is made up of 6 identical triangles.

8cm

6cm

What is the area of the hexagon?

A　120cm²

B　144cm²

C　160cm²

D　220cm²

Section 1: Multiple Choice

12. In a sweet shop, the ratio of chocolate bars to sweets is 3:5. If there are 120 sweets, how many chocolate bars are there?

A   45

B   60

C   72

D   75

13. Which of these numbers is a multiple of both 6 and 8?

A   24

B   36

C   42

D   30

The graph below shows the average time it took year 6 students to run 1km over a six-week period. Use the graph to answer questions 14–16.

A graph to show average time to run 1km
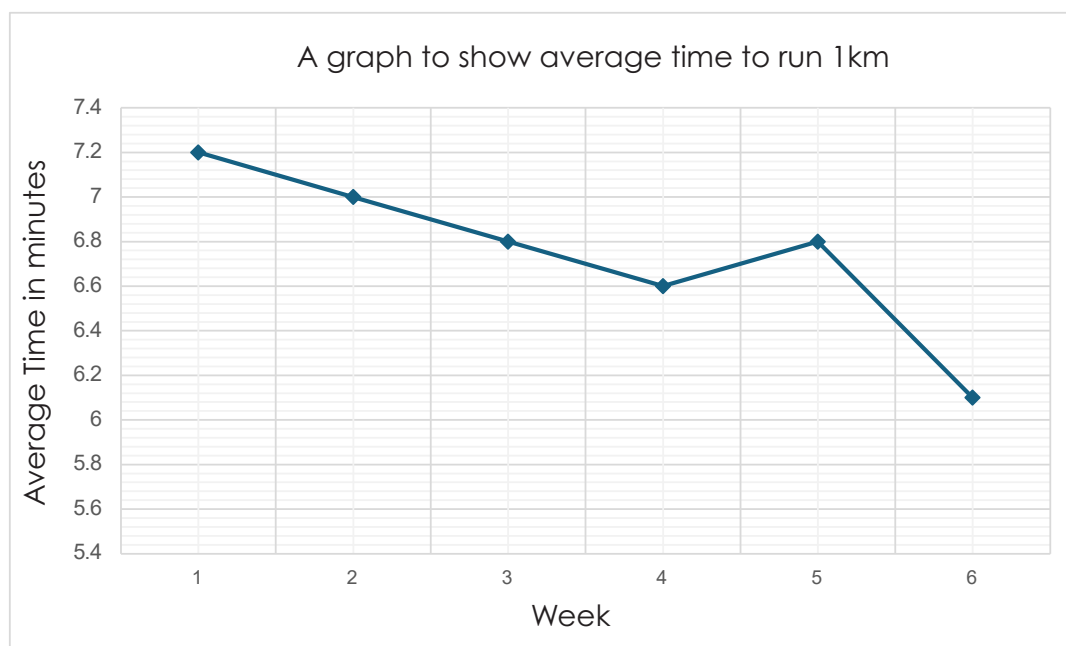
14. What was the average running time in week 4?

    A   7.2 minutes

    B   7 minutes

    C   6.8 minutes

    D   6.6 minutes

15. How many weeks had an average time less than 6.7 minutes?

    A   1 week

    B   2 weeks

    C   3 weeks

    D   4 weeks

16. What is the difference in average time for week 1 to week 6?

    A   1 minute

    B   1.1 minutes

    C   0.6 minutes

    D   1.2 minutes

17. A teacher recorded the results of 9 children in a maths test. The test was out of 20 marks.

Child 1	Child 2	Child 3	Child 4	Child 5	Child 6	Child 7	Child 8	Child 9
8	11	7	16	3	10	13	8	5

What is the average result for the maths test?

    A   7

    B   8

    C   9

    D   10

18. This is a coach timetable. **Use this table to answer questions 18 and 19.**

Explore Coaches – Daily Timetable (Monday – Friday)				
	Coach A	**Coach B**	**Coach C**	**Coach D**
Parkside	08:15	09:30	10:45	11:05
Riverview	08:45	10:00	11:15	11:37
Hilltop	09:10	10:30	11:40	12:15
Market Square	09:45	11:05	12:20	12:56

Liam wants to travel from Riverview to Market Square in the shortest possible time. Which coach should he take?

A Coach A

B Coach B

C Coach C

D Coach D

19. If Coach D is delayed at Parkside by 7 minutes and delayed at Riverview by a further 6 minutes, what time will it arrive at Hilltop?

A 11:50

B 12:20

C 12:28

D 12:15

Section 1: Multiple Choice

20. A headteacher is arranging for the children to go to the theatre. They will hire minibuses to take the children to the theatre. Each bus takes 16 children. There are 150 children in total.

How many buses will the school need to take all the children to the theatre?

A   5

B   7

C   9

D   10

21. Five bakers each baked a tray of cupcakes. Their baking times in minutes (m) and / or seconds (s) are shown in the table below.
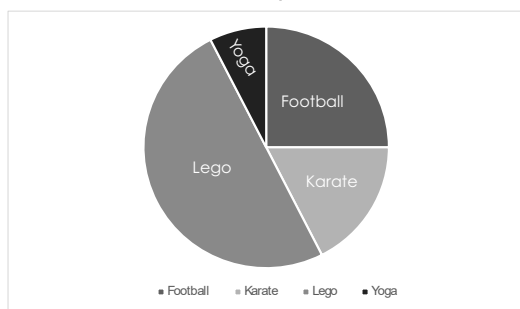
Baker 1	Baker 2	Baker 3	Baker 4	Baker 5
1.5 m	1 m 47 s	109 s	1 m 36 s	1.25 m

Who bakes their cupcakes the fastest?

A   Baker 2

B   Baker 3

C   Baker 4

D   Baker 5

22. 200 children were asked what their favourite after school is. 35 children voted for karate. How many said their favourite after school club was yoga?

A   10

B   15

C   20

D   50

Section 1: Multiple Choice

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23. What number comes next in the sequence?   4, 6, 10, 18, 34, ?

    A   66

    B   54

    C   42

    D   59

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24. 75 children from across reception and Year 1 were asked what their favourite animal was.

	Reception	Year 1
Rabbit	12	8
Dog	?	37
Hamster	4	6

How many Reception children said that dogs were their favourite animal?

    A   12

    B   59

    C   8

    D   24

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25. A square of area 49cm², a square of perimeter 20cm and a square of area 9cm² are positioned next to each other, as shown below.
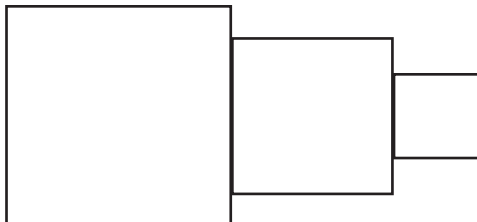
What is the perimeter of the new shape formed?

    A   44cm

    B   38cm

    C   40cm

    D   43cm

Section 2: Free Response

Instructions

Read each question carefully.

You can use the space after each question for working out, but you will not get any marks for your working out.

Write your answers on your answer sheet by writing **one** number in each box.

Example

| i | A train leaves at 08:45 and arrives at 10:10. How long is the journey? |

The correct answer is **85 minutes.**

You have **20 minutes** for this section.

There are **20 questions** to answer.

Section 2: Free Response

1. What is the difference between 2,045 and 1,457?

2. What number is 15% of 240?

3. Divide £36 equally between 9 people. How much does each person get?

4. A book costs £4.99 and a pen £1.49. You pay with a £10 note. What change do you get?

5. A farmer has 127 apples. He can fit 8 apples in a bag. How many bags does he need?

6. A car travels 135m in 3 hours. What is its average speed in miles per hour?

7. What is the value of x in this equation:

3x+4=19

Section 2: Free Response

8. Use the following bus timetable to answer questions 8 and 9.

Stop	Bus 1	Bus 2	Bus 3
Duke Street	07:59	08:23	08:55
Ashby Road	08:09	08:33	09:05
Thornton College	08:16	08:40	------
High Street	08:54	09:20	09:32
Loxton Station	09:02	09:30	09:43

How long does it take Bus 1 to travel from Duke Street to Loxon Station?

9. How much longer does Bus 2 take to travel from Ashby Road to Loxon Station than Bus 3?
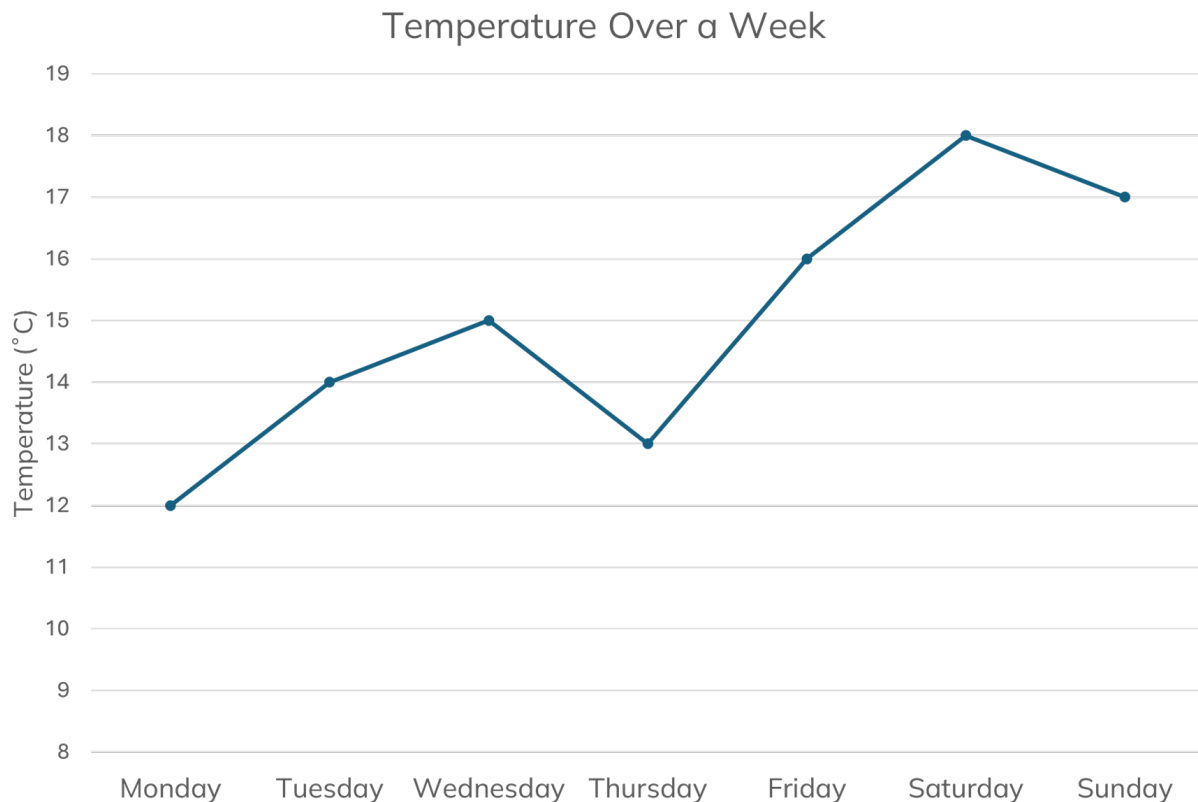
10. A square has an area of 81cm². What is the length of one side in mm?

11. A triangle has base 8cm and height 5cm. What is its area?

Section 2: Free Response

The graph below shows the temperature recorded over one week.

Use the graph below to answer questions 12 – 14.

Temperature Over a Week

| 12. | What was the difference in temperature between the hottest and coldest days? |

| 13. | By how many degrees did the temperature increase between Monday and Wednesday? |

| 14. | On how many days was the temperature higher than 14 degrees? |

Section 2: Free Response

15. A jug holds 2.5 litres of juice. 500ml are poured into a glass. How many millilitres are left in the jug?

16. A right-angled triangle has one angle of 90° and another of 40°. What is the third angle?

17. A scale drawing uses the scale 1cm = 10m. A wall is 3.5cm long on the drawing. What is its real length?

18. What two numbers add up to 56 and have a difference of 8?

19. What is the product of the first three prime numbers?

20. If ⅗ of a number is equal to 24, what is half of the number?

END OF PAPER 3