



# Maths Department

## Pre-test Practice **Mk 7**

Number logic, areas and perimeters, shapes, number sequences, ratio



Name: \_\_\_\_\_

Question 1

122 cans of fizzy drink each have a volume of 333 ml. What is the total volume of the drinks?

406 ml

4066 ml

40,624 ml

40,626 ml

4,060, 606 ml

Question 2

In Canada a coin called a quarter is 25 cents. How many quarters are there in \$16.25?

65

71

83

95

101

Question 3

Which of these IS a prime number?

1175

1281

1171

1191

1773

Question 4

If  $54 \times 46 = 2484$ , which it is, what is  $0.54 \times 4.6$ ?

2484

248.4

24.84

2.484

0.2484

Question 5

What is the next number in the sequence?

1    1    2    3    5    8    13    21      

34

30

29

33

38

Question 6

What is the next number in the sequence?

81    100    121    144    169      

225

201

199

198

196

Question 7

What is a half of a half of a half of a half?

$\frac{1}{2}$

$\frac{1}{4}$

$\frac{1}{6}$

$\frac{1}{8}$

$\frac{1}{16}$

Question 8

What is  $\frac{1}{3} \div 2$ ?

In other words, what is one third cut into two equal pieces?

$\frac{1}{5}$

$\frac{1}{6}$

$\frac{1}{4}$

$\frac{1}{9}$

6

Question 9

The dimensions of a rectangle are 210 cm by 40 cm. What is the perimeter of the rectangle?

500 cm<sup>2</sup>

250 cm

500 cm

250 cm

8400 cm<sup>2</sup>

Question 10

A rectangle has a perimeter of 32 cm, and a length of 12 cm.  
What is its area?

48 cm

12 cm

400  $\text{cm}^2$

48  $\text{cm}^2$

24 cm

Question 11

A square has an area of 169  $\text{cm}^2$ . What is its perimeter?

26 cm

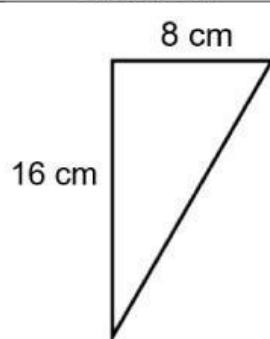
13  $\text{cm}^2$

13 cm

52  $\text{cm}^2$

52 cm

Question 12



What is the area of the triangle?

64  $\text{cm}^2$

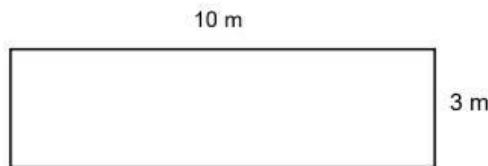
128 cm

128  $\text{cm}^2$

64 cm

24  $\text{cm}^2$

Question 13



A 10 m by 3 m patio is to be paved with stones that are 50 cm by 50 cm. How many stones are needed?

120 stones	13 stones	30 stones	26 stones	240 stones
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Question 14

Henri and Bea shared Skittles™ in a ratio of 5 : 2. If Henri got 18 **more than** Bea, Bea will be very unhappy, but that's what happened. How many did Bea get? Feel free to use the "method"...

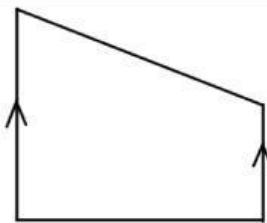
12	7	30	42	21
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Question 15

Maria and Charlotte share the driving in a ratio of 7 : 5. If Maria drives 350 km, how far did Charlotte drive?

25 km	240 km	120 km	600 km	250 km
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Question 16



What is the exact name of this shape?

rhombus

quadrilateral

parallelogram

trapezium

Isosceles trapezium

Question 17



How many lines of symmetry does this star have?

0

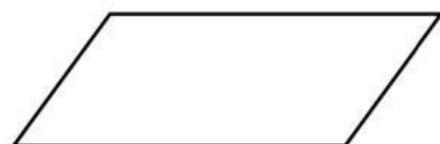
1

2

3

an Infinite number

Question 18



How many lines of symmetry does a parallelogram have?

0

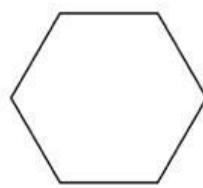
1

2

4

8

Question 19



What word best completes the sentence: the shape shown is \_\_\_\_\_.

regular

congruent

obtuse

right angled

isosceles

Question 20

The perimeter of a regular hexagon is 66 cm. What is the length of one side of the hexagon?

11 cm

33 cm

$6 \text{ cm}^2$

22 cm

$11 \text{ cm}^2$