



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 0.54×4.6 ?

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^2

250 cm

500 cm

250 cm

8400 cm^2

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 cm²

48 cm²

24 cm

Question 11

A square has an area of 169 cm². What is its perimeter?

26 cm

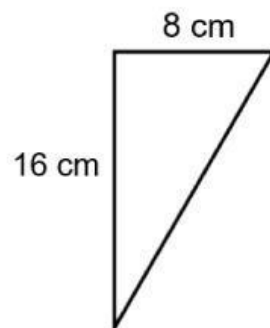
13 cm²

13 cm

52 cm²

52 cm

Question 12



What is the area of the triangle?

64 cm²

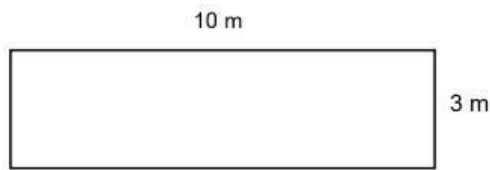
128 cm

128 cm²

64 cm

24 cm²

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

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

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

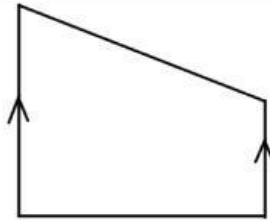
240 km

120 km

600 km

250 km

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

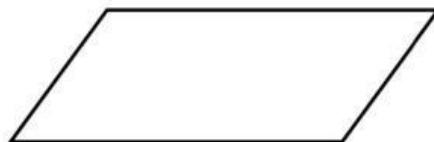
1

2

3

an Infinite number

Question 18



How many lines of symmetry does a parallelogram have?

0

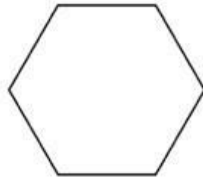
1

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 cm²

22 cm

11 cm²