



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

Name: _____

Question 1

278 bags of sand each have a mass of 24 kg. What is the total mass of sand?

6672 kg

66,672 kg

660 kg

602 kg

6676 kg

Question 2

How many five pence pieces make up £20.55?

2200

220

385

411

4110

Question 3

Which of these IS a prime number?

6199

6129

6195

6201

6750

Question 4

If $54 \times 46 = 2484$, which it is, what is $5.4 \times 46,000$?

24.84

248.4

2484

24840

248,400

Question 5

What is the next number in the sequence?

1 1 2 3 5 8 13 21 34 ____

47

49

53

55

58

Question 6

What is the next number in the sequence?

121 144 169 196 ____

225

201

199

216

256

Question 7

What is a half of a third?

$\frac{1}{2}$

$\frac{1}{4}$

$\frac{1}{6}$

$\frac{1}{8}$

$\frac{1}{16}$

Question 8

What is $9 \div \frac{1}{3}$?

In other words, how many times does one third fit into nine wholes?

3

6

9

18

27

Question 9

The dimensions of a rectangle are 50 cm by 40 cm. What is the area of the rectangle?

200 cm²

2000 cm²

20,000 cm²

2000 cm

200 cm

Question 10

A rectangle has a perimeter of 40 cm, and a length of 12 cm.
What is its area?

480 cm²

96 cm

96 cm²

480 cm

48 cm²

Question 11

A square has an area of 225 cm². What is its perimeter?

50,625 cm

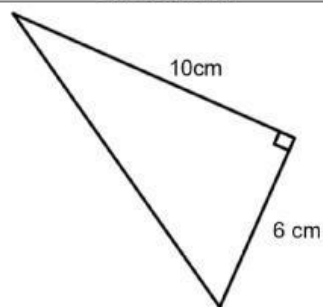
50,625 cm²

60 cm²

60 cm

15 cm

Question 12



What is the area of the triangle?

30 cm²

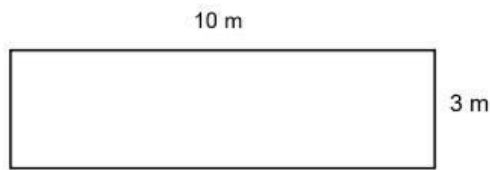
60cm²

15 cm²

30cm

60 cm

Question 13



A 10 m by 3 m patio is to be paved with stones that are 25 cm by 25 cm. How many stones are needed?

120 stones

480 stones

240 stones

4800 stones

24,000 stones

Question 14

Ella and Ava shared M&Ms™ in a ratio of 4 : 1. If Ella got 18 **more than** Ava, how many did Ava get? *Use the "method" perhaps?*

6

12

24

30

You can't tell

Question 15

Maria and Charlotte share the driving in a ratio of 3 : 5. If Maria drives 330 km, how far did Charlotte drive?

110 km

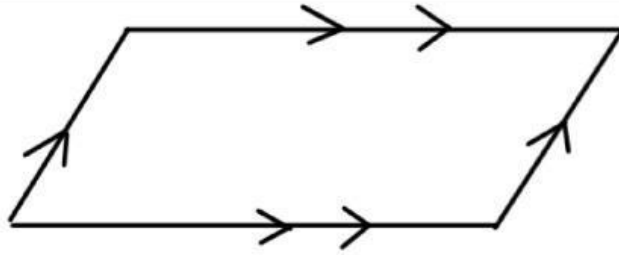
880 km

550 km

440 km

330 km

Question 16



What is the exact name of this shape?

The shape has not been drawn perfectly. You must decide its name based on the markings.

kite

quadrilateral

parallelogram

trapezium

rhombus

Question 17

How many lines of symmetry does a rhombus have?

0

1

2

3

an Infinite number

Question 18

How many lines of symmetry does a kite have?

0

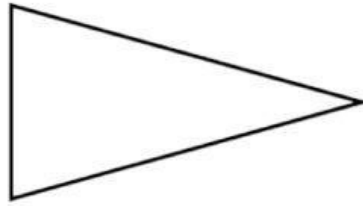
1

2

4

8

Question 19



What word best completes the sentence: the triangle shown is

_____ .

regular

congruent

obtuse

right angled

isosceles

Question 20

The perimeter of a regular octagon is 64 cm. What is the length of one side of the octagon?

4 cm

16 cm

8 cm²

8 cm

16 cm²