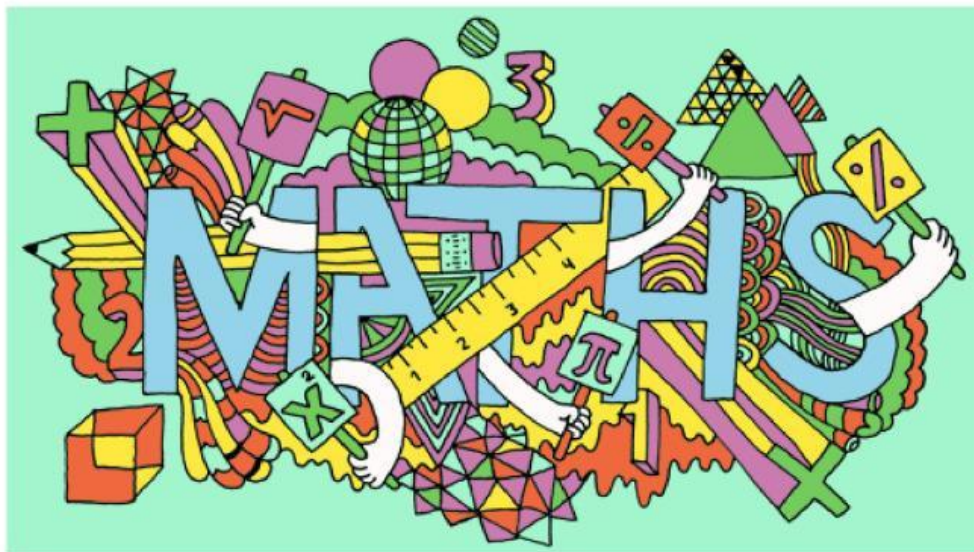




# Maths Department

## Pre-test Practice Mk4

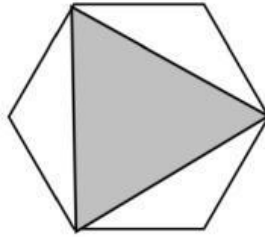
Practice from the Primary Maths Challenge



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

Question 1

What fraction of this regular hexagon is shaded?



$\frac{1}{6}$

$\frac{1}{4}$

$\frac{1}{3}$

$\frac{1}{2}$

$\frac{2}{3}$

Question 2

I have a sheet of paper and I fold it twice. Which shape can't I get?

square

rectangle

triangle

kite

circle

Question 3

One side of an isosceles triangle is 5 cm long. Another side is 13 cm long. How long is the third side?

5 cm

7 cm

12 cm

13 cm

More information  
needed

Question 4

If the area of a square is  $100 \text{ cm}^2$ , what is the perimeter of the square?

1 cm

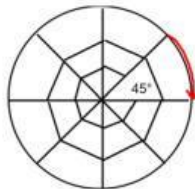
$10 \text{ cm}^2$

40 cm

$40 \text{ cm}^2$

100 cm

Question 5



Boris the spider weaves a circular web of circumference 40 cm. The web is made of sections where the angle at the centre is  $45^\circ$ . If he travels around the edge of ONE of the sections of his web (shown in red), how far will he travel?

5 cm

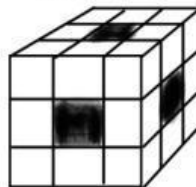
8 cm

10 cm

15 cm

24 cm

Question 6



The diagram shows centimetre cubes arranged into a bigger cube with holes all the way through. How many centimetre cubes are there in the model?

7

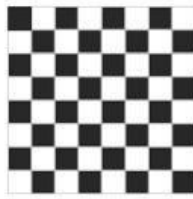
20

22

24

27

Question 7



How many lines of symmetry does a chess board have?

1

2

3

4

5

Question 8

How many of these 11 letters have at least one line of symmetry?

MEASUREMENT

0

6

7

8

9

Question 9

Suppose  $\frac{2}{5}$  of people are left handed. How many left handed people would you expect to find in a group of 55 people on a coach?

2

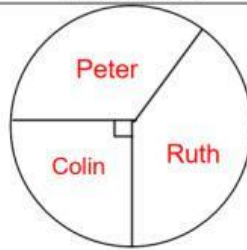
11

22

25

30

Question 10



This pie chart shows how much money three children are given each week. Colin has £5 per week. How much do Ruth and Peter get altogether?

£5

£7.50

£10

£15

£20

Question 11

Willy Wontey can't decide which offer to take when buying doughnuts. They are all priced at 50p each but the shops offer different bargains. Which shop gives the best value?

3 for the price of 2

5 for the price of 4

2 for the price of 3

4 for 35p

5 for 44p

Question 12

Yasmin wants to buy some small biscuit teddies. Which of these gives the cheapest price in pence per teddy?

10p each

2 for 18p

3 for 26p

4 for 35p

5 for 44p

Question 13

Lee cycled the 2 miles to his Gran's house at a speed of 10 mph. He got there at 11 am. At what time did he start?

10.00

10.32

10.40

10.48

10.50

Question 14

If I can travel 35 miles on 1 gallon of fuel and my tank holds 8 gallons, how many miles can I travel on a tank of fuel?

70 miles

140 miles

280 miles

560 miles

1120 miles

Question 15

Three Googleblips have twenty-seven tentacles altogether. If they all have the same number of tentacles as each other, how many tentacles do 5 Googleblips have?

9

27

40

45

Impossible to say

Question 16

Some sloths have three toes on each foot. They all have four feet. How many toes are there on 12 of these sloths?

144

120

100

30

36

Question 17

It takes Irene half an hour to do her maths homework, and half of that to do her spellings. If she starts her homework at 4.10pm and has a five minute break between subjects, what time does she finish?

4.40 pm

4.55 pm

5 pm

5.25 pm

5.30 pm

Question 18

Simon sold seven sweets for seventy seven pence each. How much money did he make?

You should NOT need to do any actual arithmetic here.

£5.35

£5.36

£5.37

£5.38

£5.39

Question 19

I go to sleep at 8 pm, wake up at 5.50 am, go back to sleep at 6.05 am, and wake up for good at 7.01 am. How long did I sleep for altogether?

8 hr 44 min

8 hr 46 min

9 hr 04 min

10 hr 46 min

None of these

Question 20

My brother and sister added their ages together and got 15. When they multiplied their ages together they got 54. How old are they?

3 and 5

5 and 10

6 and 9

7 and 9

Both 7 and a half