



# 11+ Maths Sample Entrance Test

Please note that this sample test is only 20 minutes but the test in January will last **30** minutes

## INSTRUCTIONS TO CANDIDATES:

- You have 20 minutes for the paper. **You are not necessarily expected to complete the whole paper.**
- Calculators are NOT allowed.
- Write your answers in the spaces provided in this booklet.
- Answer all 16 questions, showing clear methods. All rough work should be done in this booklet. Take care over accuracy. Clear presentation is important.
- Write your first name and last name in the spaces below.

**First name:** ..... **Last name:** .....

Write your working and answers on the paper in the spaces provided. **Show all working.**

1) Do the following calculations

a. 
$$\begin{array}{r} 839 \\ + 451 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 906 \\ - 438 \\ \hline \end{array}$$

2) Work out the following

a. 
$$\begin{array}{r} 53 \\ \times 7 \\ \hline \end{array}$$

b. 
$$3 \overline{)1767}$$

3) Work out the following

a.  $0.67 + 4.52$

.....

b.  $5.7 - 2.3$

.....

c.  $1.4 \times 1.1$

.....

4) Write the following numbers in order of size, from smallest to largest:

$$\frac{2}{3}$$

60%

0.06

0.607

.....

5) I think of a number. I multiply it by 7, subtract 3 and divide it by four. I now have 8. What was the number I first thought of?

.....

6) What are the next two terms in the following sequence?

49, 64, 81, 100, ....., .....

7) Find the missing numbers so that the answer is always 48.

152 - .....

17 + .....



25% of .....

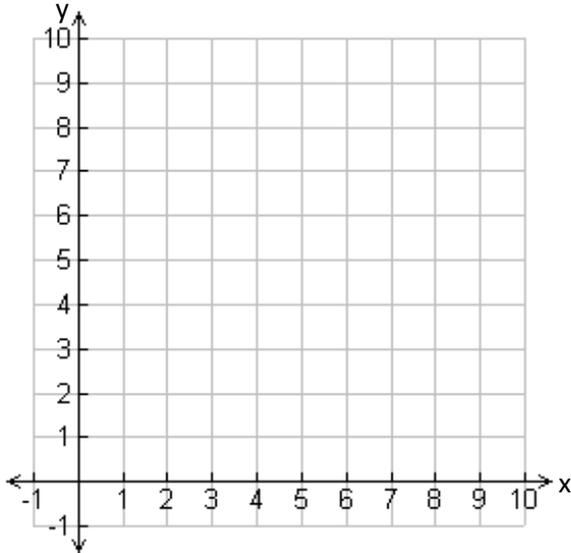
$\frac{1}{3}$  of .....

144 ÷ .....

8) Plot the following co-ordinates on the grid below.

P (1,8)      Q (9,8)      R (5,4)

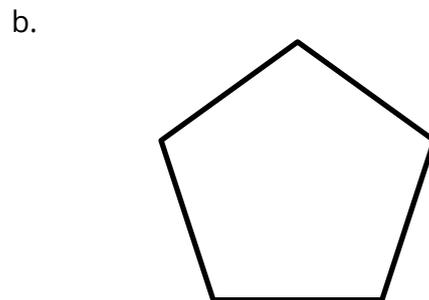
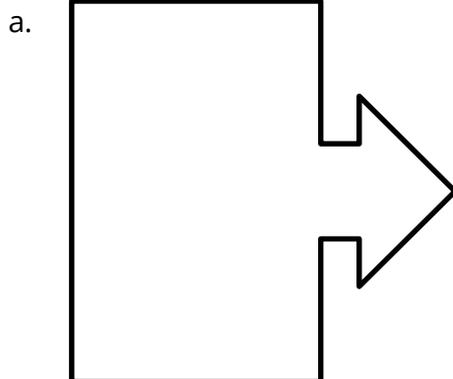
Join the 3 points to form the shape PQR.



What is the name for this type of triangle?

.....

9) Draw any lines of symmetry on the following shapes:



10) For Ben's birthday he goes to the cinema. Tickets cost £4.85 for children and £6.55 for adults. In his party there are 3 children and 2 adults.

a. How much do the tickets cost in total?

.....

b. Ben's Mum hands the cashier two £20 notes for the tickets. How much change does she receive?

.....

c. The film starts at 13.25 and finishes at 3:45pm. How long does it last?

.....Hour(s).....Mins

11) Simon wants to buy 13 small bottles of drink for a party. A shop sells them at: 14p for 1 bottle; 25p for two bottles; 60p for a pack of 5 bottles. What is the smallest amount of money he needs to spend? [Give your answer in £s]

.....

12) 632 boys and 34 teachers are going on a school trip to Alton Towers. They are travelling by coach. If each coach can carry 48 passengers, how many coaches will be needed?  
[Show all your workings]

.....

13) After tennis practice, Andy collects 3 times as many balls as Novak. They collect 44 balls altogether. How many did Andy collect?

.....

14) Usain runs four times as fast as his dad. His dad runs 5 times faster than his pet tortoise, Turbo. They all set off together for a run along the same straight path. After Usain has run 100m, how far apart are his dad and Turbo the tortoise?

.....

15) Mr Heathcote needs to cover a floor measuring 4m by 3m. There are two possible options:

<b>Acorn Tiles</b> 50cm x 50cm Cost £3 each
---

<b>Carpet</b> £12 per square metre Fitting cost £40
---

Which option is the cheapest? Show all your workings & explain clearly.

.....

16) What is the value of letters A, B and C? The row and column totals are shown.

	<b>B</b>	<b>B</b>	<b>C</b>	Row Total
	<b>A</b>	<b>C</b>	<b>C</b>	26
	<b>B</b>	<b>A</b>	<b>C</b>	44
Column Total	22	33	48	33

A= .....

B= .....

C=.....