



# North London Collegiate Junior School

## 7+ Assessment

SAMPLE PAPER  
Mathematics

Name

Room

Date

Mental

Written

Total

## Section 1: Mental Maths

1. What is double 8?

\_\_\_\_\_



2. What is 7 lots of 5?



\_\_\_\_\_

3. How many sides does a pentagon have?



\_\_\_\_\_

4. Write two odd numbers between 60 and 70?



\_\_\_\_\_ and \_\_\_\_\_

## Section 2

1. Can you help Boris the dog solve these calculations?



$$\begin{array}{r} 34 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ - 35 \\ \hline \end{array}$$

$$\begin{array}{r} 737 \\ + 255 \\ \hline \end{array}$$

$$\begin{array}{r} 802 \\ - 276 \\ \hline \end{array}$$

2. Boris is in a muddle again, can you help him complete the following calculations?

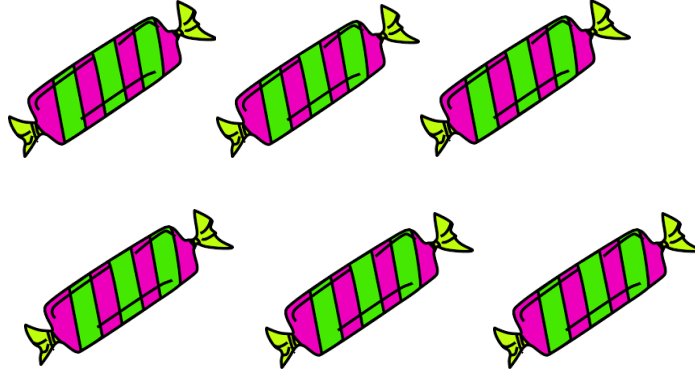
$$21 = \square + 3$$

$$18 - 5 = \square + 9$$

$$24 - 4 = 5 \times \square$$



3. Amy spends 12p on these 6 sweets, how much would 4 sweets cost?



4 sweets would cost \_\_\_\_\_ p

4. Copy and complete using < (is less than), > (is greater than) or = (is equal to)

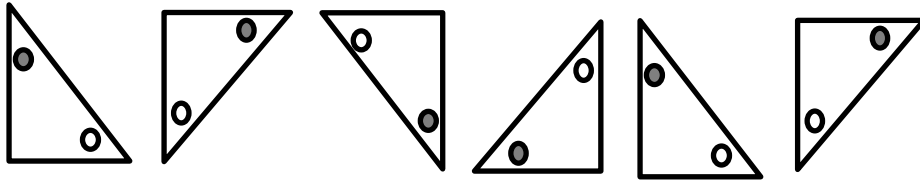
$42 + 6$    $21 + 29$

$2 \times 8$    $5 \times 3$

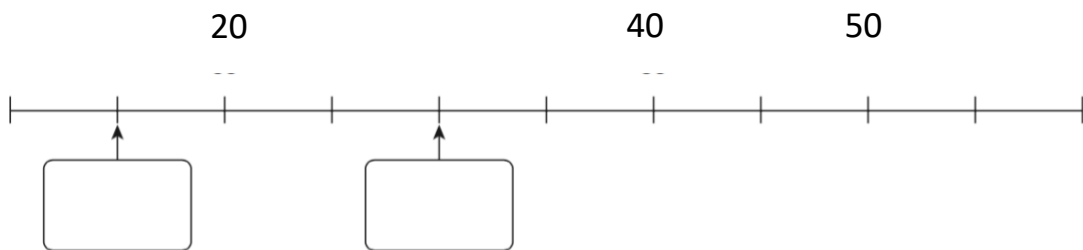
$53 - 8$    $48 - 3$



5. Look at the pattern below and draw the next two triangles to continue it.



6. Look at the number line. Write the correct numbers in the boxes.



7. A) Zoe shared her whole cake equally with her friend Aarya. What fraction did they get each?

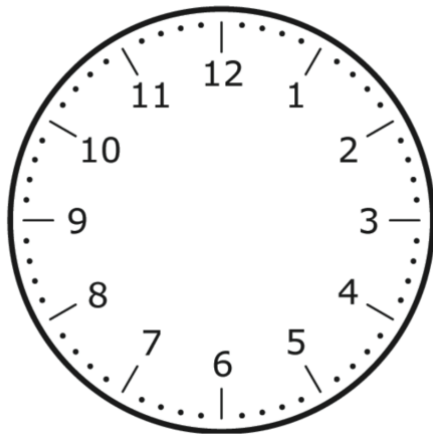
B) Aarya then shared her piece equally with her brother Jatin, what fraction did Aarya get of the cake in the end. Draw a picture to help you.

8. There are 54 marbles in a jar. 27 are red. How many are not red?

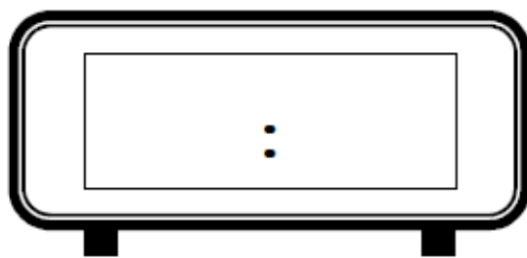
\_\_\_\_\_ marbles are not red



9. Amara cycles to her Grandma's house. She leaves home at 4pm and her journey takes 30 minutes. What time will she arrive? Draw hands on the clock to show your answer.



Write what time she arrives at her Grandma's house on this digital clock.



10. The pet shop buys dog food in boxes. Each box contains 20 tins of food.  
A lorry delivers 4 boxes of dog food.  
The pet shop already has 17 tins in the store room.  
How many tins of dog food does it now have altogether?

The pet shop has \_\_\_\_\_ tins of dog food.

11. Anna has a cake stall at the school fair. She sells 253 cakes . At the end of the day she has 28 cakes left. How many cakes did she have at the start of the fair?



She had \_\_\_\_\_ cakes at the start of the fair.





12. Look at this picture of some dice.



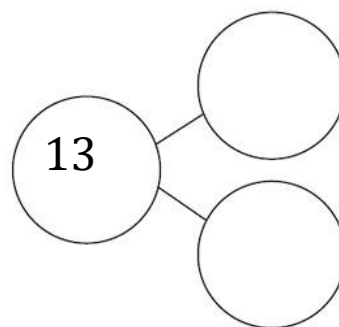
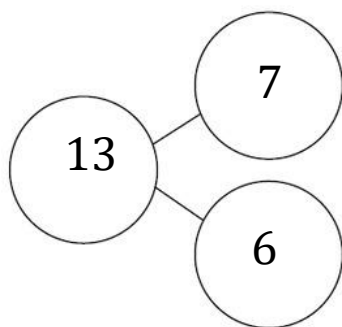
Use the picture to help you fill in the missing numbers.

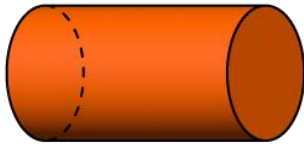
$$\underline{\quad\quad} \times 6 = 24$$

$$\frac{1}{4} \text{ of } 24 \text{ is } \underline{\quad\quad}$$

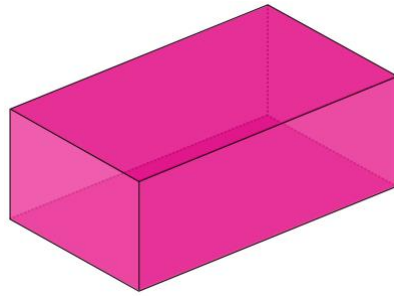
$$6 = 24 \div \underline{\quad\quad}$$

13. Look at this diagram, it shows one way the number 13 can be partitioned. Can you show another way?

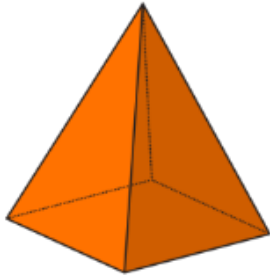




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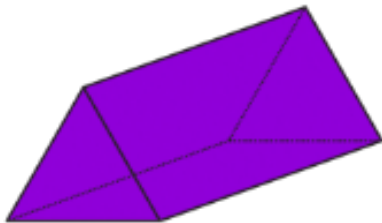
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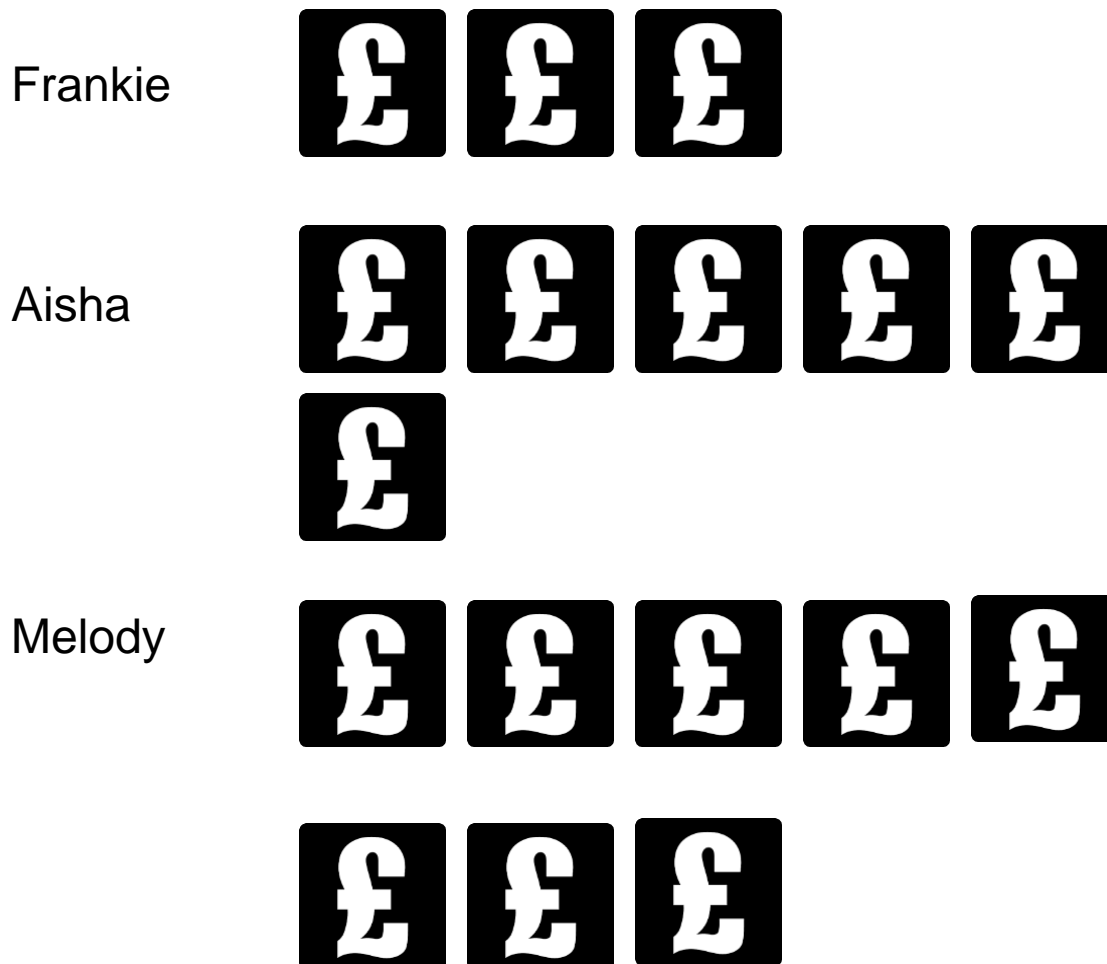
14. a) Name these 3D shapes

b) Circle the shapes that have triangular faces.

c) Tick the shape with the most vertices/corners.



15. The picture graph below shows the savings of three children. Use it to answer the questions.



Each  stands £5

a) How much has Frankie saved?

Frankie has saved £\_\_\_\_\_



b) How much less than Melody has Aisha saved?

Aisha has saved £\_\_\_\_\_ less than Melody.

c) Aisha wants to buy roller skates which cost £45, how much more does she need to save?

Aisha needs to save £\_\_\_\_\_ more to buy rollerskates.



16. Leanne has 89 stickers in her sticker book.  
Mei has 38 more stickers than Leanne. How  
many stickers does Mei have?



Mei has \_\_\_\_\_ stickers.

17. Complete these sequences

7, 17, \_\_\_\_\_, 37, 47, \_\_\_\_\_

42, 36, 30, \_\_\_\_\_, \_\_\_\_\_, 12

1, 2, 4, 7, \_\_\_\_\_, \_\_\_\_\_, 22



18. Arshna is a zoo keeper. She weighed her three favourite animals



The Orangutan is 64kg.

The Sloth is 36kg lighter than the Orangutan.













The Kangaroo is 36kg heavier than the Orangutan.

How much do the Kangaroo and Sloth weigh altogether?

Together the Kangaroo and Sloth weigh \_\_\_\_\_ kg.



19. Each animal stands for a different number.  
Each number is not more than 10.

	-		=	
	x		=	
	-		=	
	+		=	

Write the number each animal stands for.

 =

 =

 =

 =

