



# Claremont Fan Court Senior School

## Assessment for entrance at 11

### Mathematics

### Specimen paper

The use of electronic calculators is **not** permitted.

|                     |
|---------------------|
| Name _____          |
| School _____        |
| Today's Date _____  |
| Date of Birth _____ |

| <b>These boxes are to be filled by teachers only</b> |           |                       |
|--|-----------|-----------------------|
| Age<br>(Years and Completed Months)                  | Raw Score | Standardised<br>Score |
|  |           |                       |

1. Write this number in words: 13027

2. 
$$\begin{array}{r} 418 \\ \times 6 \\ \hline \end{array}$$

3. Circle a number in the 5 times table in this list:

34    70    154    69    588

4. What is  $\frac{1}{3}$  of 24?

5. Write this amount as pounds and pence:

1302 pence

6. I divide a number by 7 and the answer is 4. What is the number?

7. What is the square of 4?

8. Write 0.06 as a fraction.

9. Work out  $(5 + 4) \times 2$

**10.** My favourite television programme starts at a quarter to six in the afternoon. It lasts for 20 minutes. At what time does the programme finish?

**11.** 
$$\begin{array}{r} 568 \\ + 174 \\ \hline \end{array}$$

**12.** Work out  $3.4 \times 100$

**13.** The area of a rectangle is  $20\text{cm}^2$ . The length of the rectangle is  $5\text{cm}$  what is the width of the rectangle?

**14.** There are two children in the Smith family. The range of their ages is exactly 9 years. What could the ages of the two children be?

**15.** Subtract 5.7 from 15

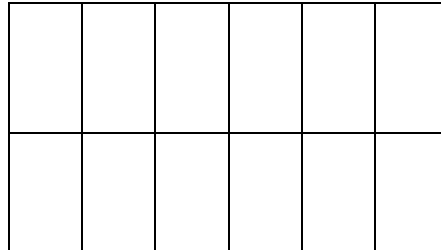
**16.** Here are four fractions:

$\frac{1}{3}$        $\frac{3}{4}$        $\frac{1}{2}$        $\frac{5}{8}$

Write them in order of size, starting with the smallest.

**17.** The radius of a circle is 15cm. How long is the diameter?

**18.** Shade in  $\frac{2}{3}$  of this shape.



**19.** Complete the sentence:

..... out of 20 is the same as 30%

**20.** On the shape below draw all the lines of symmetry.



**21.** Jack spends £1.63 and gives the shopkeeper £5. How much change will he receive?

**22.** Look at this list of lengths:

340cm 65cm 2.3m 0.68m 3.04m 15m

Write these lengths in order, starting with the smallest.

**23.** The temperature outside is  $-11^{\circ}\text{C}$ . If it rises by  $7^{\circ}\text{C}$ , what is the new temperature?

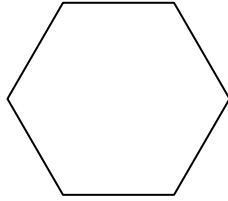
**24.**

$$\begin{array}{r} 937 \\ - 68 \\ \hline \end{array}$$

**25.** George packs two suitcases to take on holiday. He is travelling by plane. One suitcase weighs 9.65kg The other weighs 13.82kg George is only allowed to take 20kg on to the plane. His suitcases are too heavy. By how much are they too heavy?

**26.** How many minutes are there in  $2\frac{1}{2}$  hours?

**27.** What is the special name given to this polygon?



.....

**28.** How many faces does a cube have?

**29.** Work out  $46\,000 \div 100$

**30.** Jack has a 1 litre bottle of lemonade. If he fills his glass with 350 millilitres of lemonade how much will be left in the bottle?

**31.** Look at the following sequence.  
Write down the next two numbers in the sequence.

4 , 7 , 10 , 13, ..... , .....

**32.** What value does the digit 8 represent in this number?

18450

**33.** Write down the number that lies halfway between 7 and 13.

**34.** Shane has a younger brother called Henry. Shane is 3 years older than Henry. Give possible ages for Shane and Henry.

**35.** Circle the prime numbers in this list:

9      2      5      6      12      7

**36.** Write 1.3 as a fraction.

**37.** Divide 240 by 6.

**38.** If  $\frac{1}{4} = 0.25$ ,

then  $\frac{3}{4} = \dots\dots\dots$

**39.** Write down the volume of a cube with length of side 7cm.

**40.** A boat has been drawn to scale on a page. 1cm on the drawing represents 2m on the real boat. If the mast drawn on the page is 4cm high, how tall is the height of the real mast?

**41.** Peter is sharing out £7.20 among his friends. He gives Joe  $\frac{1}{4}$ , Ahmed  $\frac{1}{3}$  and Tonia  $\frac{1}{8}$ . How much does he keep for himself?

**42.** I travelled for 480 km at an average speed of 80 km/hr.  
How long did my journey take?

**43.** What is the angle between the hands of clock at 4 o'clock?

**44.** Mr Green's car travels 32 miles for each gallon of fuel in the tank. If 1 gallon is equal to 4.5 litres, how far can his car travel with 45 litres of fuel?

**45.** A cuboid has faces with areas  $24 \text{ cm}^2$ ,  $32 \text{ cm}^2$  and  $48 \text{ cm}^2$ .  
What are the lengths of the sides of the cuboid?

