

28. If  $7N + 1 = 1\,000\,000$ , find the value of

(i)  $2N$

(ii)  $3N$

(iii) By looking at your answers to (i) and (ii), write down the values of  $4N$ ,  $5N$  and  $6N$ .

29. Brown Rock lighthouse flashes every 18 seconds. Murdoch Head lighthouse flashes every 15 seconds. If they both flash together, how long will it be before they flash together again?

30. At Alonso's shop, Maddy bought a fruit pie and three buns. She paid £2.40

Sarah bought 2 fruit pies and 2 buns. She paid £2.80

(a) What was the price of a bun?

(b) What was the price of a fruit pie?

1. 
$$\begin{array}{r} 1\ 2\ 3\ 4 \\ + 3\ 5\ 6\ 7 \\ \hline \end{array}$$

2. Write the correct numbers above the lines.

(a)  $72 \div \underline{\hspace{2cm}} = 9$

(b)  $111 - \underline{\hspace{2cm}} = 44$

3.  $138 \times 32$

4. Subtract seven hundred and nine from one thousand and twenty six.

5.



To which numbers do arrows A, B and C point?

A                           B                           C                     

6. (a)  $1\frac{3}{4} \times \frac{2}{3}$

(b)  $1\frac{3}{4} + \frac{2}{3}$

7. Add 10.42 , 1.585 and 6

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8. A cuboid is 9 inches long, 6 inches wide and 4 inches high.

(a) What is its total surface area?

\_\_\_\_\_ square inches

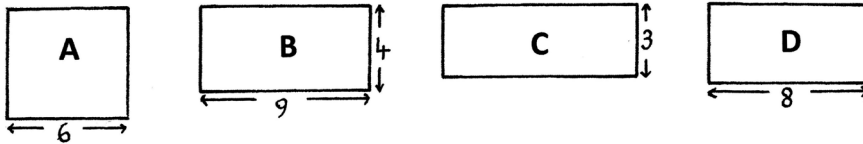
(b) What is its volume?

\_\_\_\_\_ cubic inches

(c) A cube has the same volume as the cuboid. What is the area of each of its faces?

\_\_\_\_\_ square inches

9. Each of these rectangles (*not drawn to scale*) has the same area. Which has the longest perimeter?



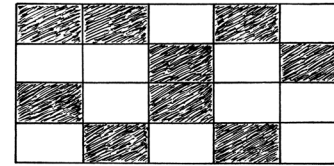
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10. Find the next two numbers in each of these sequences.

68 , 61 , 54 , 47 , \_\_\_\_\_ , \_\_\_\_\_

400 , 200 , 100 , 50 , \_\_\_\_\_ , \_\_\_\_\_

11.



(a) What fraction of the figure is shaded?

\_\_\_\_\_

(b) Express this fraction as a percentage.

\_\_\_\_\_

(c) Express the **unshaded** fraction as a decimal.

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12. Mr Moss bought 3 newspapers at 75p each, 2 magazines at £1.20 each, and a paperback book at £1.95.

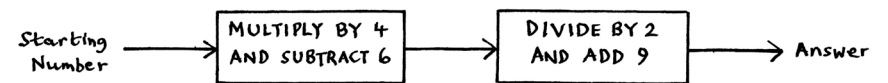
(a) What was the total cost?

\_\_\_\_\_

(b) He paid the exact amount with a £5 note and three coins. Which three coins were they?

\_\_\_\_\_

13. This 'machine' processes a number to give a final answer.



Example: 5 → [ × 4 = 20 ; 20 - 6 = 14 ] → [ 14 ÷ 2 = 7 ; 7 + 9 = ] → 16

(a) What answer is obtained if the starting number is  $6\frac{1}{2}$ ?

\_\_\_\_\_

(b) If the answer is 2, what is the starting number?

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