

Output numbers are produced from input numbers by using a certain rule. Work out the rule each time and enter the correct number in the box. A different rule is used for each question.

<p>1 Input Output</p> <p>2 → 7</p> <p>5 → 10</p> <p>10 → 15</p> <p>14 → <input type="text"/></p>	<p>2 Input Output</p> <p>1 → 5</p> <p>4 → 20</p> <p>7 → 35</p> <p>10 → <input type="text"/></p>
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<p>3 Input Output</p> <p>3 → 1</p> <p>15 → 5</p> <p>21 → 7</p> <p>30 → <input type="text"/></p>	<p>4 Input Output</p> <p>5 → 11</p> <p>8 → 17</p> <p>10 → 21</p> <p>12 → <input type="text"/></p>
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Supply the missing numbers.

5 $12 + 14 = 20 + 2 + \square$

6 $18 + 19 = 20 + \square + 9$

7 $27 + 25 = 40 + \square + 5$

8 $56 + 33 = 80 + 6 + \square$

9 What are the three factors of 9?

10 What are the four factors of 15?

11 12 has six factors. Enter them in the boxes.

In each line below circle 2 numbers which are factors of 24.

12 4 5 10 12 16

13 2 7 8 14 20

14 1 9 18 20 24

Supply the missing multiples in each line.

15 0 4 8 12 16

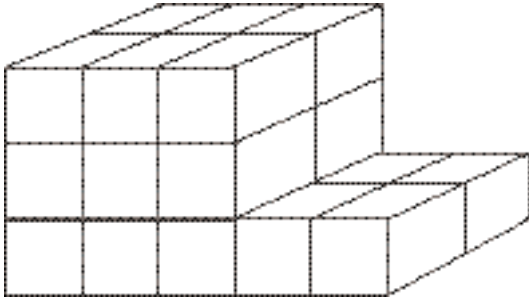
16 0 10 20 40 60

17 0 7 21 28 42

18 0 18 27 45 54

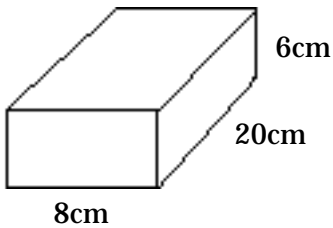
- 35 The area of a room is 54m^2 . If the room is 9m long, how wide is it?

Ans _____ m



- 36 How many cuboids make up this solid shape?

Ans _____ cuboids



- 37 What is the volume of this block of wood?

Ans _____ cm^3

- 38 The volume of a shoe box is 2400cm^3 . If the box is 20cm long and 12cm wide what height is it?

Ans _____ cm

Each line below is drawn to a different scale. Measure each line to the nearest cm and use the scale to find the true length each time.

39 _____

Scale 1cm to 10cm

True Length (_____) cm

40 _____

Scale 1cm to 30cm

True Length (_____) cm

41 _____

Scale 1cm to 2m

True Length (_____) m

42 _____

Scale 1cm to 5km

True Length (_____) km

43 _____

Scale 1cm to 20km

True Length (_____) km



This is the ground floor plan of a house. The plan is drawn to a scale of 1cm to 2 metres. Measure the rooms to the nearest cm and work out the true length and breadth of -

44 The Hall _____ m and _____ m

45 The Living Room _____ m and _____ m

46 The Kitchen _____ m and _____ m

- 18 From a 4 metre length of wood I cut 1.63 metres and then 2.08 metres. What length of wood is left?

Ans _____ m

- 19 How much change do I have from £10.00 if I spend £3.90 and £4.25?

Ans £ _____

- 20 How many 12p oranges can be bought using £1?

Ans _____ oranges

- 21 A teacher takes a group of nine 8-year-old pupils to the seaside by train. The return fare is £2.30 per child and £4.80 per adult. How much in total does the teacher pay in return fares?

Ans £ _____

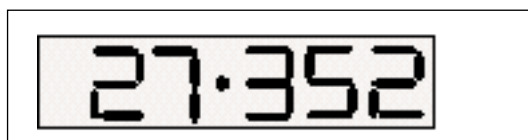
- 22 19 x 19 is approximately how many? Circle one answer.

40 140 400 440 4000

- 23 1287 - 195 is approximately how many? Circle one answer.

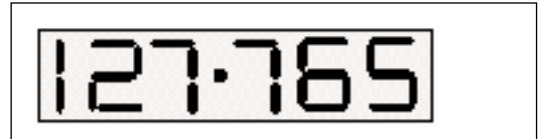
900 1000 1100 1150 1500

- 24 This calculator display shows the average weight in grams of plums in a box. What is the weight to the nearest gram?



Ans _____ grams

- 25 This calculator display shows the average wage earned by 8 workmen. What is their average wage to the nearest pound?



Ans £ _____

- 26 Write 8 X 8 in index form.

Ans _____

- 27 Calculate 5^3 .

Ans _____

- 28 What fraction is equivalent to $\frac{1}{3}$? Circle one answer.

$\frac{3}{4}$ $\frac{2}{3}$ $\frac{2}{6}$ $\frac{1}{7}$ $\frac{1}{30}$

- 29 What fraction is equivalent to $\frac{4}{10}$? Circle one answer.

$\frac{4}{5}$ $\frac{3}{5}$ $\frac{1}{7}$ $\frac{2}{5}$ $\frac{1}{10}$

- 30 What fraction is the same as 75%? Circle one answer.

$\frac{7}{10}$ $\frac{3}{4}$ $\frac{75}{75}$ $\frac{1}{8}$ $\frac{1}{2}$

- 31 What percentage is the same as $\frac{1}{5}$? Circle one answer.

10% 50% 75% 25% 20%

- 32 1 litre is approximately $1\frac{3}{4}$ pints. How many pints in 2 litres?

Ans _____ pints

27 What number 81 using index form.

Ans

28 Complete the equation by putting the correct number in the box.

$$\frac{1}{2} = \frac{\square}{10}$$

29 Complete the equation by putting the correct number in the box.

$$\frac{\square}{5} = \frac{40}{100}$$

30 How many percent is equivalent to $\frac{1}{2}$?

Ans %

31 Which simple fraction is equivalent to 90%? Circle one answer.

$$\frac{1}{9} \quad \frac{9}{10} \quad \frac{9}{9} \quad \frac{90}{90} \quad \frac{19}{90}$$

32 Write 37 in Roman numerals.

Ans

33 Calculate

$$\begin{array}{r} 756 \\ \times 87 \\ \hline \end{array}$$

34 Calculate

$$6 \overline{)339} \text{ Rem}$$

35 In a train carrying 136 passengers $\frac{1}{4}$ of them were women and the rest men. How many men were on the train?

Ans men

36 What is $\frac{1}{5}$ of 2 kg?

Ans kg

37 A frozen cake costing £1.80 is increased in cost by 10%. How much does the cake rise in price?

Ans £

38 $\frac{1}{4}$ kg of very expensive sweets costs £5.00. How much do they cost per gram?

Ans £

39 A bank deposit account attracts 5% simple interest per year. I had £600 in my account for one year and then I added on my year's interest. How much is in my account now?

Ans £

40 What is the area of a square when each side measures 8 metres?

Ans m²

41 Paving slabs are £3 each and measure 1m X 1m square. How much would it cost me to cover a space measuring 3m X 7m using these slabs?

Ans £

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