Problems of the Day 2020



What are the missing digits?

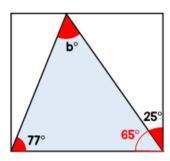
2 Annie and Ron each think of a number.



The product of their numbers is 762 Work out Ron's number.

 $762 \div 6 = 127$

3 Find the size of angle b.



$$90 - 25 = 65$$

$$65 + 77 = 142$$

 $180 - 142 = 38$

$$b = 38^{\circ}$$



Problems of the Day 2020

Marbles are put into bags of 10 3 A toy train c



- · 67 bags of marbles are packed.
- 3 more marbles are added to each bag.

How many marbles are there in total now? $67 \times 13 = 871$

2 Work out the missing digits.

$$\boxed{5} \times \boxed{7} \times \boxed{3} = 105$$

 $105 \div 5 = 21$

3 A toy train costs three times as much as a rocket.





The total cost of the train and rocket is £52

How much does the train cost?

$$\begin{array}{c} \textbf{52} \div \textbf{4} = \textbf{I3} \\ \textbf{I3} \times \textbf{3} = \textbf{3} \textbf{9} \end{array}$$

The train costs £39



Problems of the Day 2020



The table shows the ages of people in a theme park.

Age	Number of people
Under 18	126
18 - 60	195
Over 60	38

These are the entry costs.

How much money did the theme park make from entry costs? £2,846

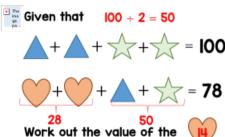


$$126 \times 5 = 630$$

$$38 \times 7 = 266$$

$$195 \times 10 = 1,950$$

$$630 + 1,950 + 266 = 2,846$$



3 What are the missing numbers?

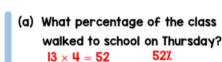
 $28 \div 2 = 14$

78 - 50 = 28

$$|420| \div 10 = 42$$



Problems of the Day 2020



- There are 25 children in a class.

 The bar chart shows the number of children in the class who walk to school each day.
- (b) One of the days it rained.

 Which day do you think it was?

 Explain to your friend.

 Wednesday, because the least number of children walked.
- 2 Order the following numbers. Start with the smallest.

$$\frac{3}{5} = 3\frac{3}{5} = 3.6$$
 $3\frac{1}{4} = 3.2$



Problems of the Day 2020

8

- Workers in a factory make toys.
 - · On Monday they make 2,350 toys.
 - On Tuesday they make 235 more toys than they did on Monday.

By Wednesday they have to make 7,500 toys in total.

How many toys do they need to make on Wednesday to make 7,500 in total?

2,350 + 235 = 2,585 2,350 + 2,585 = 4,935 7,500 - 4,935 = 2,565

They need to make 2,565 toys on Wednesday.



Carrots £1.80 per kg

How much does 250 g of carrots cost? 1.80 ÷ 4 = 0.45
250 g of carrots cost 45p

3



How much does 300 g of parsnips

cost? $2.60 \div 10 = 0.26$ $0.26 \times 3 = 0.78$

300 g of parsnips cost 78p

