

Find the whole when given a fraction of an amount

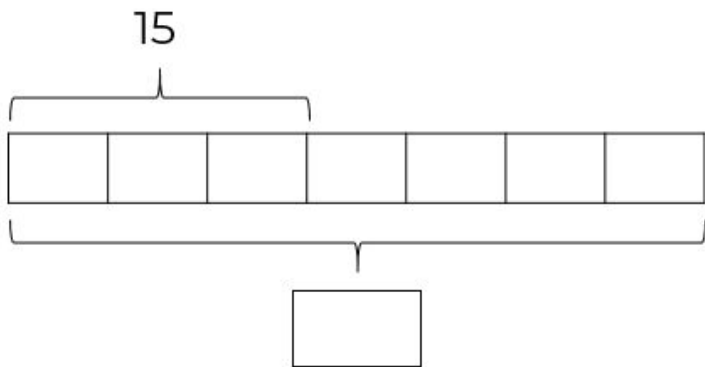
Maths

Mr Chan



Find the whole when given a fraction of an amount

1. Use the bar model to increase to find the original number given that $\frac{3}{7}$ of a number is 15



2. Mark is told that $\frac{2}{5}$ of a number is 30. He is asked to work out the number. Here is his working out.

$$30 \div 5 = 6$$

$$2 \times 6 = 12$$

What mistakes has he made?

What is the correct answer?



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3. Work out the numbers for the following.

a) $\frac{2}{3}$ of a number is 21

b) $\frac{3}{7}$ of a number is 21

c) $\frac{7}{10}$ of a number is 35

d) $\frac{5}{6}$ of a number is 60

4. Amir has found the same shirt on two different websites.

GetShirty.com
Special offer: $\frac{2}{5}$ off normal price.
Sale price £36

ShirtsUK.com
Special offer: $\frac{3}{7}$ off normal price.
Sale price £32

In which store was the original amount the most expensive?

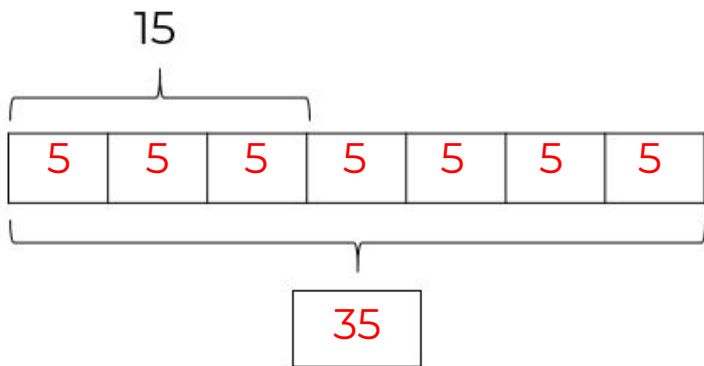


Answers



Find the whole when given a fraction of an amount

1. Use the bar model to increase to find the original number given that $\frac{3}{7}$ of a number is 15



2. Mark is told that $\frac{2}{5}$ of a number is 30. He is asked to work out the number. Here is his working out.

$$30 \div 5 = 6$$

$$2 \times 6 = 12$$

What mistakes has he made?

He should have divided by the numerator to get one part equal to 15

What is the correct answer?

75



Find the whole when given a fraction of an amount

3. Work out the numbers for the following.

a) $\frac{2}{3}$ of a number is 21 31.5

b) $\frac{3}{7}$ of a number is 21 49

c) $\frac{7}{10}$ of a number is 35 50

d) $\frac{5}{6}$ of a number is 60 72

4. Amir has found the same shirt on two different websites.

GetShirts
Special Offer: $\frac{2}{5}$ off the normal price
Sale price £36

ShirtsUK
Special Offer: $\frac{3}{7}$ off the normal price
Sale price £32

In which store was the original amount the most expensive?

GetShirts = £60 (most expensive)

ShirtsUK = £56

