

Examples

Workout



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Question 1: Find the original number for each question below.

- (a) $\frac{1}{2}$ of a number is 7, what is the number? (b) $\frac{1}{3}$ of a number is 4, what is the number?
- (c) $\frac{1}{4}$ of a number is 8, what is the number? (d) $\frac{1}{5}$ of a number is 9, what is the number?
- (e) $\frac{1}{2}$ of a number is 12.5, what is the number? (f) $\frac{1}{3}$ of a number is 27, what is the number?
- (g) $\frac{1}{10}$ of a number is 2.6, what is the number? (h) $\frac{1}{12}$ of a number is 8, what is the number?

Question 2: Find the original number for each question below.

- (a) $\frac{2}{3}$ of a number is 12, what is the number? (b) $\frac{2}{5}$ of a number is 10, what is the number?
- (c) $\frac{2}{7}$ of a number is 6, what is the number? (d) $\frac{3}{10}$ of a number is 60, what is the number?
- (e) $\frac{4}{9}$ of a number is 12, what is the number? (f) $\frac{2}{3}$ of a number is 3, what is the number?
- (g) $\frac{3}{4}$ of a number is 27, what is the number? (h) $\frac{5}{12}$ of a number is 35, what is the number?

Question 3: Find the original number for each question below.

- (a) A number is increased by $\frac{1}{3}$ to 16. What was the number?
- (b) A number is increased by $\frac{1}{5}$ to 36. What was the number?
- (c) A number is decreased by $\frac{1}{4}$ to 21. What was the number?
- (d) A number is decreased by $\frac{1}{10}$ to 162. What was the number?
- (e) A number is increased by $\frac{2}{5}$ to 49. What was the number?

- (f) A number is increased by $\frac{3}{8}$ to 22. What was the number?
- (g) A number is decreased by $\frac{4}{5}$ to 12. What was the number?
- (h) A number is decreased by $\frac{13}{20}$ to 1400. What was the number?

Apply

Question 1: Rebecca is $\frac{1}{3}$ of Barry's age.
Barry is $\frac{1}{6}$ of Neville's age.

If Rebecca is 4 years old, how old is Neville?



Question 2: A new snack bar contains 7.5g of sugar.
 $\frac{3}{10}$ of the snack bar is sugar.

Work out the mass of the snack bar.

Question 3: In a class, $\frac{2}{7}$ of the students have blonde hair.

There are 20 students without blonde hair.

How many students are in the class?

Question 4: The height of a tree increased by $\frac{4}{15}$ during 2016.

The tree is 2.47m by the end of 2016.

Work out the height of the tree at the beginning of 2016.



Question 5: Laura invested some money.

In the first year, the amount of money increased by $\frac{1}{20}$

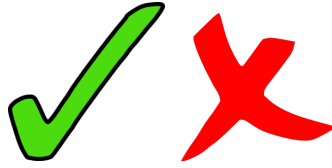
In the second year, the amount of money increased by $\frac{1}{5}$

In the third year, the amount of money decreased by $\frac{1}{4}$

Was the investment a success?

Fractions: Finding the Original
Video 138 on www.corbettmaths.com

Answers



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