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?

**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