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Division



Let's Learn!

Quotient and Remainder

- 1 Siti and Annissa had 12 pails.
They divided the pails equally between themselves.

- a How many pails did each girl receive?
b How many pails were left?

a $12 \div 2 = ?$



From above, $12 \div 2 = 6$.

We can use the following format called **long division** to carry out our calculations.

$$\begin{array}{r} 6 \leftarrow \text{Quotient} \\ 2 \overline{) 12} \\ \underline{12} \\ 0 \leftarrow \text{Remainder} \end{array}$$

Quotient = 6

There are 6 pails in each group.

Each girl received 6 pails.

- b Remainder = 0
So, there were no pails left.

Divide the 12 pails
into 2 equal groups.

$$\begin{array}{l} 6 \times 2 = 12 \\ 2 \times 6 = 12 \end{array}$$



- 2 Sarah, Yati, Azwan and Zainal had 11 seashells.
They shared the seashells equally among themselves.



- a How many seashells did each child receive?
b How many seashells were left?

a $11 \div 4 = ?$



Divide the 11 seashells into 4 equal groups.

$$\begin{array}{r} 2 \leftarrow \text{Quotient} \\ 4 \overline{) 11} \\ \underline{8} \\ 3 \leftarrow \text{Remainder} \end{array}$$

$4 \times 2 = 8$
8 is smaller than 11.
 $4 \times 3 = 12$
12 is greater than 11.
Choose 2 as the quotient.

$11 \div 4 = 2$ in each group with remainder 3
 $= 2 \text{ R}3$
Quotient = 2
Remainder = 3

Each child received 2 seashells.

- b 3 seashells were left.



3 3 children shared 17 starfish equally among themselves.

a How many starfish did each child receive?

b How many starfish were left?

a $17 \div 3 = ?$



$$\begin{array}{r} \square \\ 3 \overline{) 17} \\ \square \\ \hline \square \end{array}$$

$3 \times 5 = 15$
15 is smaller than 17.

$3 \times 6 = 18$
18 is greater than 17.

Choose **5** as the quotient.



$17 \div 3 = \square$ in each group with remainder $\square$

$= \square$ R $\square$

Quotient $= \square$

Remainder $= \square$

Each child received $\square$ starfish.

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