

Fast Five

1. 3456 divided by $6 =$

2. $9864 - 234 =$

3. $900 \times 200 =$

4. $1.64 + 0.86 =$

5. $365 \times 23 =$

Fast Five Answers

1. 3456 divided by $6 = 576$

2. $9864 - 234 = 9630$

3. $900 \times 200 = 180000$

4. $1.64 + 0.86 = 2.5$

5. $365 \times 23 = 8395$

Can I use long division?

Long division is a tricky concept so today we will keep practising that skill. We will still record any remainders , just as remainders, not decimals.

We will also look at word problems involving Long Division.

Lets recap the method again.

Try 5321 divided by 15

Bob has 5321 apples. She wants to put equal amounts into 15 different baskets. How many apples can he put in each basket?

$$5321 \div 15 =$$

How many 15s in 5? **0**

$$15 \times 300$$

How many 15s in 53? **3**

How many 15s in 82? **5**

$$15 \times 50$$

How many 15s in 71? **4**

$$15 \times 4$$

Remainder

$$\begin{array}{r}
 0354 \text{ r } 11 \\
 \underline{15 \overline{) 5321}} \\
 4500 \\
 \underline{0821} \\
 \underline{0750} \\
 71 \\
 \underline{60} \\
 11
 \end{array}$$

Word problems and remainders

Today's tasks will look at interpreting word problems and practising long division.

Sometimes the remainders form part of the answer and sometimes they do not. You need to read the question carefully.

Let's look at some examples

Question 1

146 people were transported in vans that each carry 9 passengers. How many vans were needed?

The division is $146 \div 9 = 16 \text{ r}2$, so 16 vans will be full and one van will have 2 passengers.

But the *answer* is, they needed 17 vans because otherwise 2 passengers would be left behind.

Question 2

You pack 1,250 blank CDs into boxes of 200 each. How many **full** boxes will you get?

$6 \times 200 = 1,200$; so $1,250 \div 200 = 6 \text{ R}50$.

6 boxes will be full (and 50 CDs are left over, not packed).