

Tuesday 17th November

17.11.20


XVII XI MMXX

Choose your chilli challenge.



Complete the division questions. Making sure you give the answer with the required remainder.

Check your answers on the next page.

whole number
remainder 

$$39 \div 5 =$$

$$89 \div 11 =$$

$$59 \div 7 =$$

$$90 \div 8 =$$

$$38 \div 3 =$$

  fraction

$$32 \div 5 =$$

$$74 \div 3 =$$

$$38 \div 4 =$$

$$86 \div 5 =$$

$$44 \div 6 =$$

   decimal

$$76 \div 5 =$$

$$89 \div 4 =$$

$$75 \div 6 =$$

$$100 \div 8 =$$

$$135 \div 12 =$$

Next page for answers.

 whole number

$$39 \div 5 = 7r4$$

$$89 \div 11 = 8r1$$

$$59 \div 7 = 8r3$$

$$90 \div 8 = 11r2$$

$$38 \div 3 = 12r2$$

  fraction

$$32 \div 5 = 6\frac{2}{5}$$

$$74 \div 3 = 24\frac{2}{3}$$

$$38 \div 4 = 9\frac{2}{4}$$

$$86 \div 5 = 17\frac{1}{5}$$

$$44 \div 6 = 7\frac{2}{6}$$

   decimal

$$76 \div 5 = 15.2$$

$$89 \div 4 = 22.25$$

$$75 \div 6 = 12.5$$

$$100 \div 8 = 12.5$$

$$135 \div 12 = 11.25$$

Next page for answers.

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WALT: practise short division (no remainders).

Steps to Success

Use multiplication facts to work out division facts.

The remainder can be given as a whole number or as a fraction

Fraction remainders - the numerator is the remainder and the denominator is the number you divided by (divisor).

Decimal answer - convert fraction into a decimal.

Today we will be reviewing short division.

$$\begin{array}{r} 442 \\ 4 \overline{) 568} \end{array}$$

How many 4s go into 5? 1 remainder 1. Carry the remainder over to the 6.

How many 4s go into 16? 4.
How many 4s go into 8?
2

$$\begin{array}{r} 328 \\ 3 \overline{) 984} \end{array}$$

How many 3s go into 9?
3

How many 3s go into 8?
2 remainder 2. Carry the 2 over to the 4.

How many 3s go into 24?
8

$$\begin{array}{r} 1327 \\ 6 \overline{) 7962} \end{array}$$

How many 6s go into 7?
1 with 1 remainder. Carry the 1 over.

How many 6s in 19? 3 with 1 remainder. Carry the 1 over.

How many 6s go into 16?
2 with 4 remainder. Carry the 4 over.

How many 6s go into 42? 7

Let's apply our skills to a reasoning question.

There are 12 pencils in a box.

There are 140 pupils. How many boxes do I need so every child has a pencil?



RUCSAC $140 \div 12 = 11 \text{ r } 8$

This is the calculation but it doesn't answer the question.



How many boxes of pencils do I need so all 140 pupils have a pencil?

$12 \times 11 = 132$

If I buy 11 boxes, only 132 pupils will have a pencil. 8 pupils won't have a pencil.

So I will need to buy **12** boxes of pencils.

RUCSAC

Once everyone has a pencil, how many pencils will I have left in the last box?

Once everyone has a pencil, how many pencils will I have left in the last box?



$$12 \times 12 = 144$$

pencils in a box

number of boxes

total number of pencils

$$144 - 140 = 4$$

total number of pencils

number of pencils needed

number of spare pencils

RUCSAC

There will be 4 spare pencils in the last box.

Finally, go onto mymaths and complete the lesson and tasks set for today.