

Long Multiplication.

Step one: 23

X28

184

1. (Multiply by the unit first)

Say eight threes are 24.

Put down my four and carry my two.

Eight twos are sixteen

Sixteen and two are eighteen

Step 2. 23

X28

184

460

644

2. (Then multiply by the 10s)

On the next line put Zero in the units column

Say two threes are six

Say two twos are four

3. Then ADD up.

Four and Zero are four

Eight and six are fourteen. Put down my four and carry my one.

One and four are five.

Five and one are six.

Division.

Division Language.

3rd/4th

$$6 \div 2 = 3$$

six divided by 2 = 3 OR

two into 6 goes 3 times

How many 2s in 6?

Factors of 6 are 2 and 3

5th

numerator \longrightarrow 3

Denominator \longrightarrow 5

Divisor (factor)

Equivalent fractions $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$

6th

HCF – Highest common factor

e.g. Factors of 6 are 1, 2, 3

Factors of 10 are 1, 2, 5, 10

The HCF is 2

Ratio 2:1 = 8:4 = 20:10

Graph language e.g. 1 square represents 10 people.

Short division.

4 7 2
1 8

four into seven goes once and 3 over

four into 32 goes eight times

Long Division.

--2
1. 48 1200

Step 1 Say forty eight into one, I cannot do

--
2. 48 1200

Step 2 Say forty eight into twelve, I cannot do

--2
3. 48 1200

Step 3 Estimate forty eight into one hundred and twenty (maybe 2 or 3 times)

Try multiplying

48	48
<u>x2</u>	<u>x3</u>
96	144

96 is the closest number that is less than 120
forty eight into one hundred and twenty goes twice – write number two on top

4. **Step 4** forty eight by two is ninety six. Write 96 below. Be careful to place unit under unit.

--2
48 1200
-96
24

Step 5 Subtract ninety six from one hundred and twenty

--2
48 1200
-96↓
240

Step 6 Bring down the next digit.
Use an arrow

7. **Step 7** Now estimate forty eight into two hundred and forty (approx five times).

--25
48 1200
↙
-96
240

Try Multiplying: 48

<u>x5</u>
240

Write number five on the top

--25
48 1200
-96
240
-240
000

Step 8 Write two hundred and forty on the bottom and subtract

Your answer is twenty five
1200 ÷ 48 = 25

