

Adding and Subtracting Decimals

Keep the decimal points underneath each other!

$$2.34 + 83.1$$

$$52.67 - 3.083$$

1) $5.64 + 2.431$

2) $56.8 - 32.71$

3) $120 + 3.5601$

4) $12 - 4.5$

5) $54.97 + 23.865$

↘ This one is hard!
Take it slowly!

6) $12.01 - 7.945$

$$\begin{array}{r} 11 \\ 12.0 \\ - 4.5 \\ \hline 7.5 \end{array}$$

$$16.3 - 9.71$$

$$\begin{array}{r} 15 \quad 12 \\ 16.30 \\ - 9.71 \\ \hline 6.59 \end{array}$$

Using Decimals to solve problems.

Find the total length of two snakes put end to end if the mother is 1m 3cm and the baby 9.5 cm.

What is the difference in their lengths?

If I chopped the mother into 20 equal parts how long would each part be?

If the mother had 11 babies all 9.5cm and they were placed alongside her, end-to-end, would they be longer or shorter than her?

Multiplying by 10, 100 etc

890 8900 6
 60

12
120

32 0.4
3.2 4

~~Dividing by 10, 100 etc~~

X

890 1200 6
 12 600

89,000 40
320 0.4
3.2

7.3
730
0.6
60

Work out as many of these as
you can.

$$44 \div 10$$

$$48 \div 100$$

$$45 \div 100$$

$$0.3 \times 100$$

$$7 \div 100$$

$$36 \times 200$$

$$44 \times 1000$$

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Families of sums

Multiplying with decimals

$$2.3 \times 6 = 13.8$$

$$23 \times 6 \quad \begin{array}{r} \times 20 \quad 3 \\ \hline 6 \mid 120 + 18 = 138 \end{array}$$

$$2.3 \times 6$$

$$0.4 \times 3 = 1.2$$

$$4 \times 3 = 12$$

$$1) 4.5 \times 8 = 36$$

$$\begin{array}{r} \times 8 \\ \hline 40 \mid 320 \\ 5 \mid 40 \\ \hline 360 \end{array}$$

$$2) 6.1 \times 3$$

$$= 18.3$$

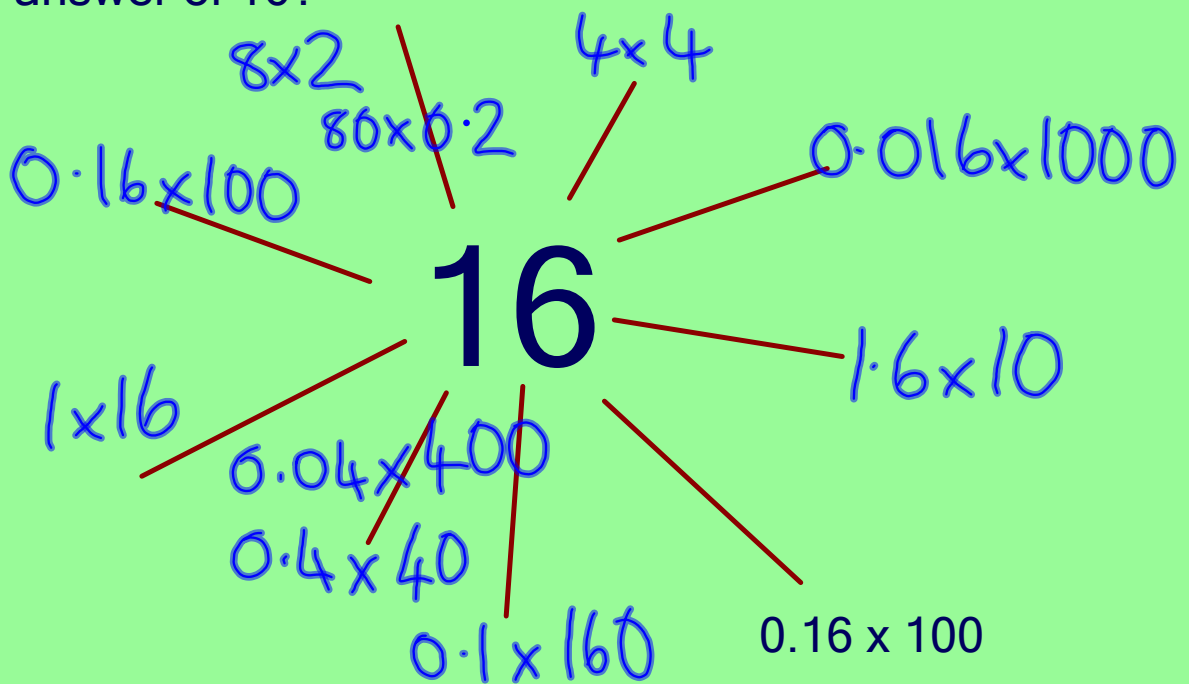
$$\begin{array}{r} \times 3 \\ \hline 60 \mid 180 \\ 1 \mid 3 \end{array}$$

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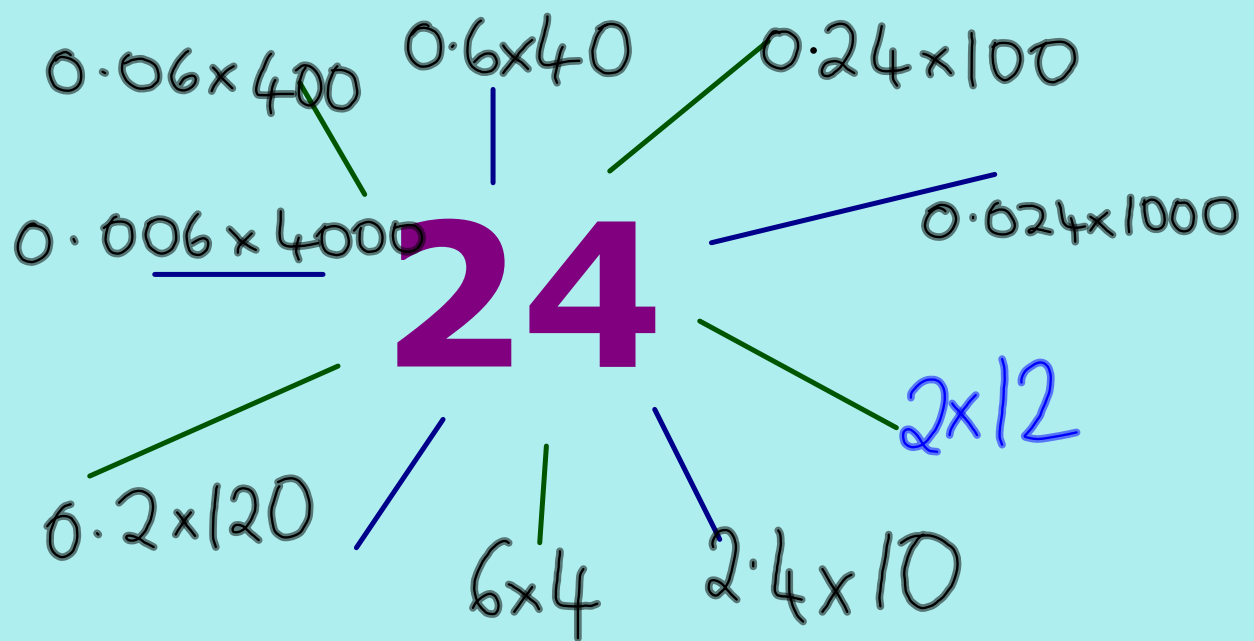
A3 onwards

$$\begin{array}{r} \times 3 \\ \hline 5 \mid 40 \quad 3 \end{array}$$

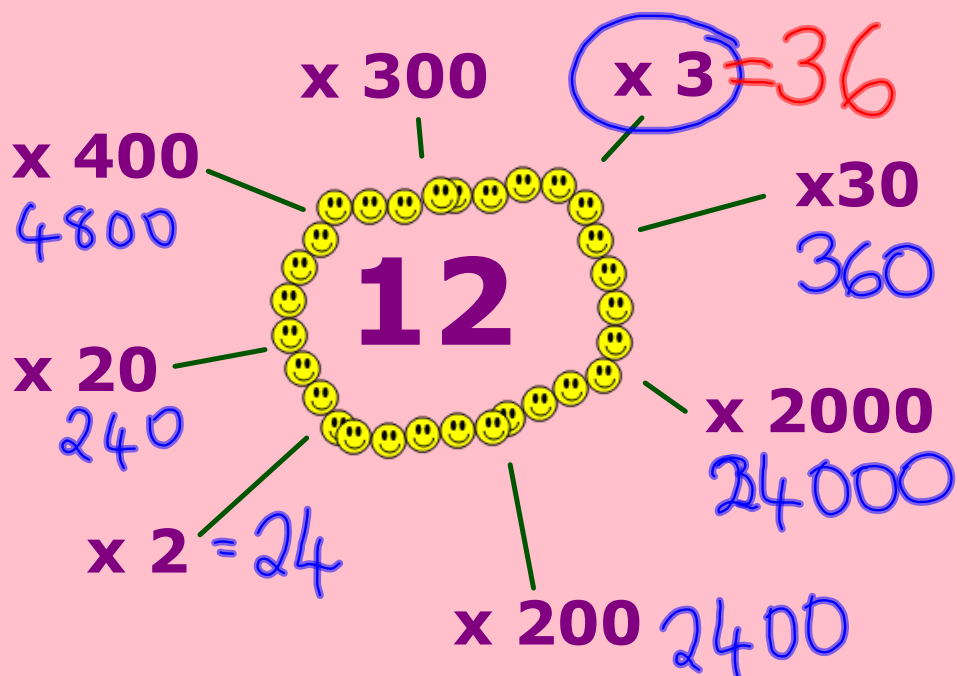
How many multiplication sums can you construct with an answer of 16?



Related Multiplications



Multiplying by 20, 200 etc



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Division

$20.6 \div 2$

$206 \div 2$

$$\begin{array}{r} 10.3 \\ 2 \overline{) 20.6} \end{array}$$

$$\begin{array}{r} 0.6 \\ 4 \overline{) 2.4} \\ \underline{2.4} \\ 0 \end{array}$$

$28.8 \div 4$

$$\begin{array}{r} 7.2 \\ 4 \overline{) 28.8} \end{array}$$



$4.59 \div 9$

$$\begin{array}{r} 0.51 \\ 9 \overline{) 4.59} \end{array}$$



$82.8 \div 3$

$$\begin{array}{r} 27.6 \\ 3 \overline{) 82.8} \end{array}$$



$22.47 \div 7$

$$\begin{array}{r} 3.21 \\ 7 \overline{) 22.47} \end{array}$$



Division

What about remainders?

$$\begin{array}{r} 41 \div 5 \\ 5 \overline{) 41.000} \\ \underline{75} \\ 75 \\ \underline{100} \\ 100 \\ \underline{100} \\ 0 \end{array}$$
$$\begin{array}{r} 30 \div 4 \\ 4 \overline{) 30.0} \\ \underline{10} \\ 10 \\ \underline{10} \\ 0 \end{array}$$
$$\begin{array}{r} 53 \div 5 \\ 5 \overline{) 53.0} \\ \underline{30} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

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Write a word problem that requires you to do the sum $26 \div 6$?



When might the answer be 4?

When might the answer be 5?

Decimals to fractions

Copy and complete

fraction	decimal
$\frac{5}{10} = \frac{1}{2}$	0.5
$\frac{32}{100}$	0.32
$\frac{3}{10}$	0.3
$\frac{73}{100}$	0.73
$\frac{1}{4}$	0.25 *
$\frac{50}{200} = \frac{25}{100}$	0.25

Put these in order, smallest first:

9% 20% $\frac{1}{2}$ 0.6

To change a fraction to decimal divide!
eg $\frac{4}{5} = 4 \div 5$

Attachments

rounding to 1 dp.xbk

Bidmaspowers1Fch1.doc

divide by 10.doc

sig fig and dp.doc

multiplyin and dividing by 10.ppt

match the sums.doc

related multiplication.ppt

decimals.ppt.ppt

multiplication and division.ppt

Divide.ppt

15RandNos.xls

related multiplications (D).ppt