

RECALL

x	10	10	5	3
8				

$$8 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

RECALL

x	10	10	5	3
8	80	80	40	24

$$8 \times 28 = 224$$

L.O. DIVIDE NUMBERS UP TO 4 DIGITS BY A 2-DIGIT WHOLE NUMBER USING THE FORMAL WRITTEN METHOD OF SHORT DIVISION.

- **SOME WILL EVEN:** Prove my answer is right in several ways.
- **SOME WILL:** Use short division to solve the sum.
- **MOST WILL:** Use various models to represent the sum.
- **ALL WILL:** Use know multiples and factors to aid in calculation.

MY TURN

a) Each astronaut has 132 bottles of water for their stay in the space station.

How many days will this last for one astronaut?

b) The astronauts eat the same amount of fruit puree each week.

How many tubes of fruit puree will they eat each week?

help

Chunk the number to help you.



YOUR TURN

a) Each astronaut has 150 bottles of water for their stay in the space station.

How many days will this last for one astronaut?

b) The astronauts eat the same amount of fruit puree each week.

How many tubes of fruit puree will they eat each week?

help

Chunk the number to help you.



Wes says they will need 294 pieces of fruit per person for 14 weeks if they want 3 pieces a day. Is he correct?



APE





5

?

1000

?

200

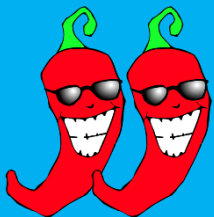
?

30

?

5

$$1235 \div 5 = \underline{\hspace{2cm}}$$



9

?

900

10

?

?

45

?

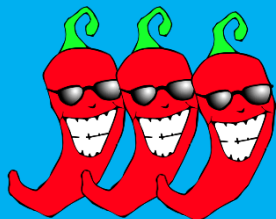
9

$$\underline{\hspace{2cm}} \div 9 = \underline{\hspace{2cm}}$$

Use this method to solve the following division sums:

$$2,415 \div 7 =$$

$$2,310 \div 15 =$$

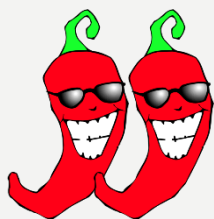


Prove your answers using a different method.



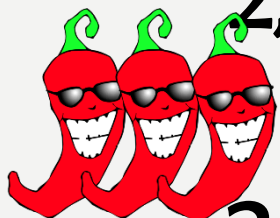
	200	40	6	1
5	1000	200	30	5

$$1235 \div 5 = 247$$



	100	10	5	1
9	900	90	45	9

$$1044 \div 9 = 116$$



$$2,415 \div 7 = 345$$

	300	40	5
7	2100	280	35

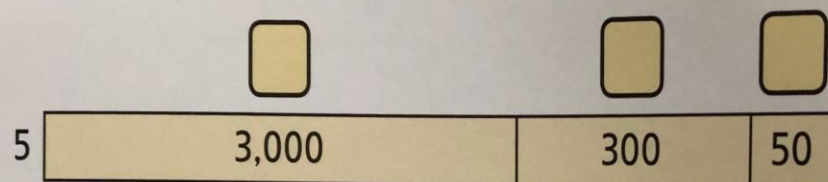
$$2,310 \div 15 = 154$$

	100	50	4
15	1500	750	60

1)

DIVE DEEPER 1

In total, there are 3,350 kg of supplies on the space station. If the astronauts use 5 kg of supplies per day, how many days will the supplies last for?



The supplies will last for days.

A rocket can carry 560 kg.

If each satellite weighs 40 kg, how many satellites can a rocket carry?

A rocket can carry satellites.

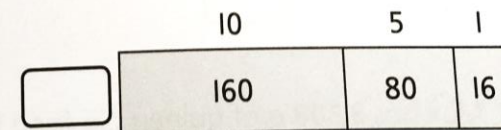
$$40 \overline{) 560}$$

2)

Match each division to a model, and then complete the models and the divisions.

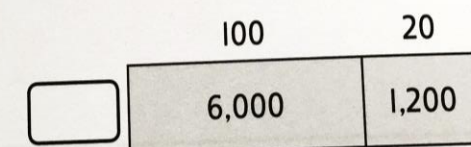
$$6 \overline{) 1536}$$

$$1,536 \div 6 = \boxed{}$$



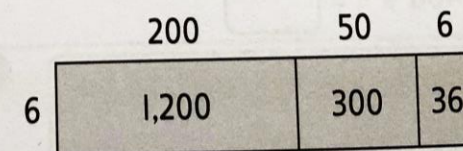
$$16 \overline{) 256}$$

$$256 \div 16 = \boxed{}$$



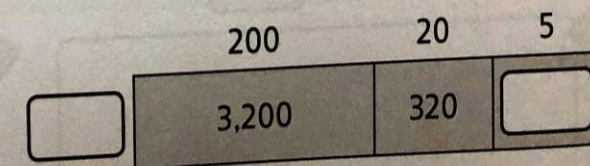
$$16 \overline{) 3600}$$

$$3,600 \div 16 = \boxed{}$$



$$60 \overline{) 7200}$$

$$\boxed{} = 7,200 \div 60$$





DIVE DEEPER 1

1)

In total, there are 3,350 kg of supplies on the space station. If the astronauts use 5 kg of supplies per day, how many days will the supplies last for?

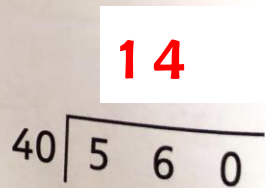


The supplies will last for **670 days**

A rocket can carry 560 kg.

If each satellite weighs 40 kg, how many satellites can a rocket carry?

A rocket can carry **14 satellites.**



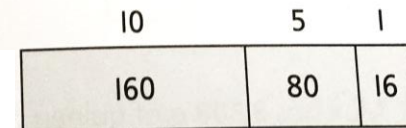
2)

Match each division to a model, and then complete the models and the divisions.

$$6 \overline{) 1536}$$

$$1,536 \div 6 =$$

16

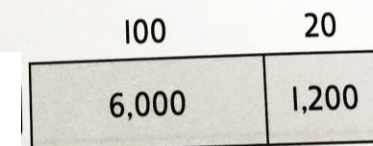


$$16 \overline{) 256}$$

$$256 \div 16 =$$

16

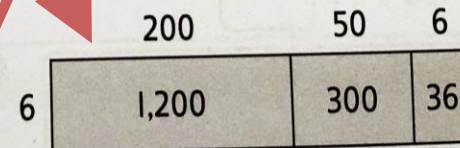
60



$$16 \overline{) 3600}$$

$$3,600 \div 16 =$$

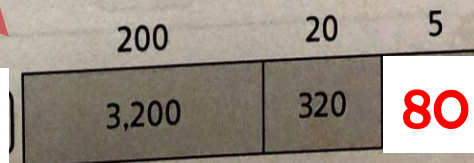
225



$$60 \overline{) 7200}$$

$$120 = 7,200 \div 60$$

16



3 a) Solve these divisions.

$$5,050 \div 25 = \square$$

$$1,770 \div 15 = \square$$

$$\square = 9,840 \div 24$$

I wonder if I could work these out WITHOUT a written method?



4)

Solve these divisions.

a) $468 \div 9 = \square$

c) $378 \div 18 = \square$

b) $4,689 \div 9 = \square$

d) $3,798 \div 18 = \square$

Do you need to recalculate for second sum or can you use the answer from the first sum to help you?



Find the missing digits...

$$\begin{array}{r} 3 \quad 3 \\ 22 \overline{) \quad 8 \quad 8} \end{array}$$

$$\square \div 22 = \square$$

DIVE DEEPER 2



5)

There is no remainder in either of these divisions. Work out the missing digits.

$$\begin{array}{r} 0 \quad 4 \quad * \quad 4 \\ 11 \overline{) \quad 4 \quad 6 \quad * \quad 4} \end{array}$$

I will start by working out how many groups of 11 are in 46.

$$\begin{array}{r} 2 \quad 0 \quad * \\ 12 \overline{) \quad * \quad 4 \quad 7 \quad *} \end{array}$$



3 a) Solve these divisions.

$$5,050 \div 25 = 202$$

$$1,770 \div 15 = 118$$

$$410 = 9,840 \div 24$$

I will need to find $0 \div 24$ for the last division. I wonder if that is possible.



DIVE DEEPER 2



5)

There is no remainder in either of these divisions. Work out the missing digits.

$$\begin{array}{r} 0 \ 4 \ 2 \ 4 \\ 11 \overline{) 4 \ 6 \ 2 \ 4} \end{array}$$

I will start by working out how many groups of 11 are in 46.

$$\begin{array}{r} 2 \ 0 \ 6 \\ 12 \overline{) 2 \ 4 \ 7 \ 2} \end{array}$$



4)

Solve these divisions.

$$a) 468 \div 9 = 52$$

$$c) 378 \div 18 = 21$$

$$b) 4,689 \div 9 = 521$$

$$d) 3,798 \div 18 = 211$$



Find the missing digits...

$$\begin{array}{r} 3 \ 1 \ 3 \\ 22 \overline{) 6 \ 8 \ 8 \ 6} \end{array}$$

$$6886 \div 22 = 313$$

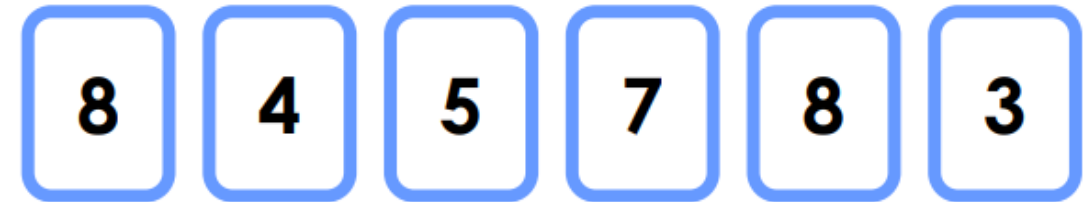


9a. Use the digit cards to complete the calculation. The divisor is less than 5.



$$\square\square \div \square = \square.\square\square$$

9b. Use the digit cards to complete the calculation. The divisor is greater than 6.



$$\square\square \div \square = \square.\square\square$$