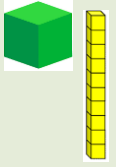


RECALL – RELATED MULTIPLICATION



Use the dienes to help you.



$2 \times 2 = \square$

$2 \times 20 = \square$

$2 \times 3 = \square$

$2 \times 30 = \square$

$2 \times 4 = \square$

$2 \times 40 = \square$

$2 \times 5 = \square$

$2 \times 50 = \square$



$7 \times 1 = \square$

$7 \times 10 = \square$

$4 \times 2 = \square$

$4 \times 20 = \square$

$3 \times 3 = \square$

$3 \times 30 = \square$

$5 \times 2 = \square$

$5 \times 20 = \square$



$6 \times 4 = \square$

$6 \times 40 = \square$

$7 \times 3 = \square$

$7 \times 30 = \square$

$9 \times 4 = \square$

$9 \times 40 = \square$

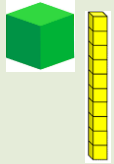
If I multiply my number by 6, I get 42.
What do I get if I multiply my number by 60?



RECALL – RELATED MULTIPLICATION



Use the dienes to help you.



$2 \times 2 = 4$

$2 \times 20 = 40$

$2 \times 3 = 6$

$2 \times 30 = 60$

$2 \times 4 = 8$

$2 \times 40 = 80$

$2 \times 5 = 10$

$2 \times 50 = 100$



$7 \times 1 = 7$

$7 \times 10 = 70$

$4 \times 2 = 8$

$4 \times 20 = 80$

$3 \times 3 = 9$

$3 \times 30 = 90$

$5 \times 2 = 10$

$5 \times 20 = 100$



$6 \times 4 = 24$

$6 \times 40 = 240$

$7 \times 3 = 21$

$7 \times 30 = 210$

$9 \times 4 = 36$

$9 \times 40 = 360$

If I multiply my number by 6, I get 42.

What do I get if I multiply my number by 60?

$6 \times 7 = 42$

$60 \times 7 = 420$



**LO: I CAN USE RELATED NUMBER
FACTS TO SOLVE PROBLEMS**

Page

MODELLED EXAMPLE

There are **6** bones and **60** dog treats.
They are shared equally between Rusty, Ollie and Buddy (the dogs).



- 1 How many bones do they get each?
- 2 How many dog treats do they get each?
- What do you notice?

Act out the problems with equipment.

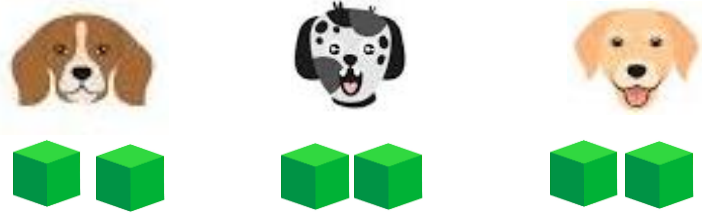
Draw them pictorially.



1

Working it out

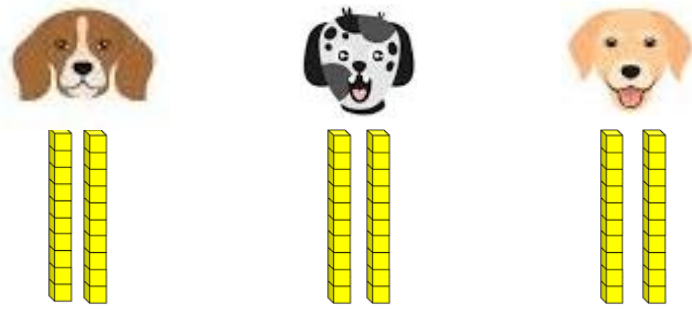
There are **6** bones.
There are **3** dogs.



$$6 \div 3 = 2$$

2

There are **60** dog treats.
There are **3** dogs.



$$60 \div 3 = 20$$



The answer is 10 times bigger because there are 10 times more dog treats.

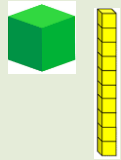
INTELLIGENT PRACTICE



Use the dienes to help you share into two groups.



$2 \div 2 = \square$



$20 \div 2 = \square$

$4 \div 2 = \square$

$40 \div 2 = \square$

$6 \div 2 = \square$

$60 \div 2 = \square$

$8 \div 2 = \square$

$80 \div 2 = \square$



$8 \div 4 = \square$

$80 \div 4 = \square$

$6 \div 3 = \square$

$60 \div 3 = \square$

$9 \div 3 = \square$

$90 \div 3 = \square$

$10 \div 2 = \square$

$100 \div 2 = \square$



$15 \div 3 = \square$

$150 \div 3 = \square$

$24 \div 4 = \square$

$240 \div 4 = \square$

$72 \div 8 = \square$

$720 \div 8 = \square$

If I get 30 when I divide my number by 4.

What will I get if I divide my number by 40?



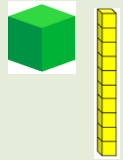
INTELLIGENT PRACTICE



Use the dienes to help you share into two groups.



$$2 \div 2 = 1$$



$$20 \div 2 = 10$$

$$4 \div 2 = 2$$

$$40 \div 2 = 20$$

$$6 \div 2 = 3$$

$$60 \div 2 = 30$$

$$8 \div 2 = 4$$

$$80 \div 2 = 40$$



$$8 \div 4 = 2$$

$$80 \div 4 = 20$$

$$6 \div 3 = 2$$

$$60 \div 3 = 20$$

$$9 \div 3 = 3$$

$$90 \div 3 = 30$$

$$10 \div 2 = 5$$

$$100 \div 2 = 50$$



$$15 \div 3 = 5$$

$$150 \div 3 = 50$$

$$24 \div 4 = 6$$

$$240 \div 4 = 60$$

$$72 \div 8 = 9$$

$$720 \div 8 = 90$$

If I get 30 when I divide my number by 4. What will I get if I divide my number by 40?

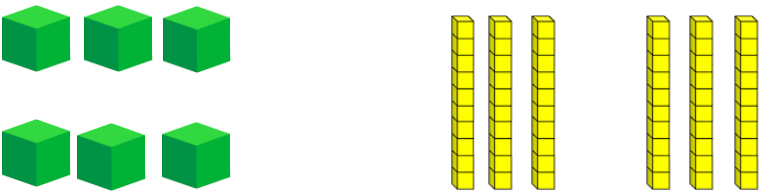


$$120 \div 4 = 30$$

$$120 \div 40 = 3$$

DIVE DEEPER 1

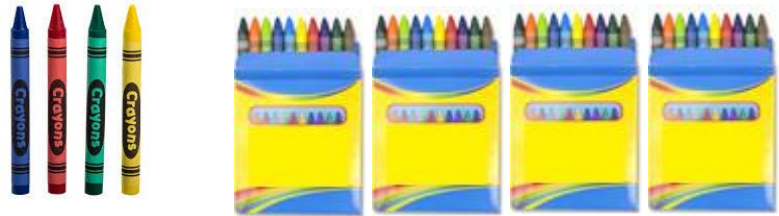
1 Share these dienes into two groups.



6 ÷ 2 =

60 ÷ 2 =


2 Share these crayons into four groups.



4 ÷ 4 =

40 ÷ 4 =


3 Adam has 9 cherries and shares them onto three plates. How many are on each plate?



He now shares 90 cherries onto three plates. How many are on each plate. Write the sum.


÷ =

4 Harry has a packet of Starburst. There are 15 inside. He puts them into groups of 5. Write the calculation.



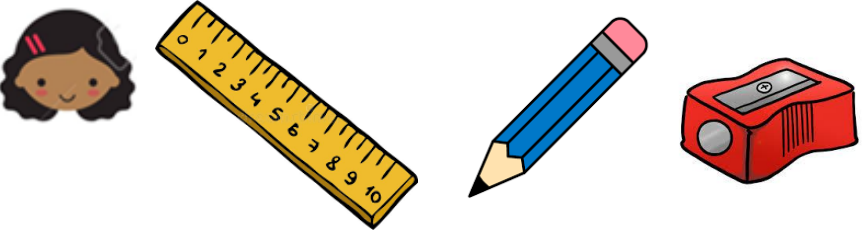
÷ =


Louise has 10 packets of Starburst. She puts them into groups of 5. Write the calculation.



÷ =

5 Jessica spend 240 pence in the shop. What could she have bought? How many different combinations can you find?

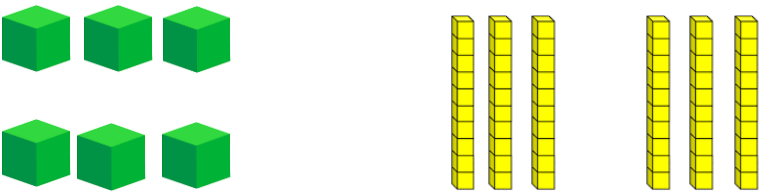


 40p 30p 20p

Show your working out in your maths book.

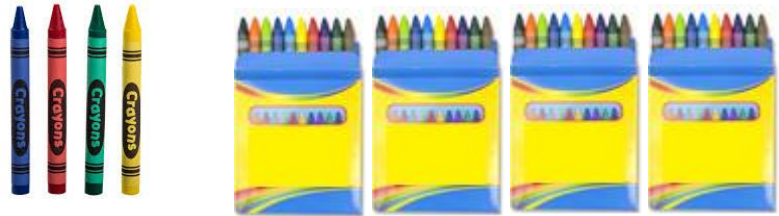
DIVE DEEPER 1

1 Share these dienes into two groups.




6 ÷ 2 = 60 ÷ 2 =

2 Share these crayons into four groups.



4 ÷ 4 = 40 ÷ 4 =


3 Adam has 9 cherries and shares them onto three plates. How many are on each plate?



He now shares 90 cherries onto three plates. How many are on each plate. Write the sum.


÷ =

4 Harry has a packet of Starburst. There are 15 inside. He puts them into groups of 5. Write the calculation.



÷ =

Louise has 10 packets of Starburst. She puts them into groups of 5. Write the calculation.



÷ =

5 Jessica spend 240 pence in the shop. What could she have bought?
How many different combinations can you find?


$40 + 40 + 40 + 40 + 40 + 40 = 240$

$30 + 30 + 30 + 30 + 30 + 30 + 30 + 30 = 240$

$20 + 20 + 20 + 20 + 20 + 20 + 20 + 20 + 20 + 20 + 20 = 240$

$40 + 40 + 30 + 30 + 30 + 30 + 20 + 20 = 240$

(many more)



DIVE DEEPER 2

1



There are 24 chocolates in this box. I want to share them with my 8 friends. How many chocolates do they each get?

2

Write down the calculation to solve the following problem.

Jane has 48 flowers which must be put into **bunches** (groups) of 6. How many bunches of flowers will she have when finished?

_____ ÷ _____ =

3

Adam has 15 grapes and shares them onto five plates.

How many are on each plate?



He now shares 150 grapes onto five plates. How many are on each plate. Write the sum.

÷ =

4

Jane is calculating $42 \div 3$

T	O

Can you spot and explain her mistake?

5

Jacob answers the question $44 \div 4$ using place value counters.




T	O

Is he correct?

Explain your reasoning.




DIVE DEEPER 2

1  There are 24 chocolates in this box. I want to share them with my 8 friends. How many chocolates do they each get?

2 Write down the calculation that is needed to solve the following problem.

Jane has 48 flowers which must be put into bunches (groups) of 6. How many bunches of flowers will she have when finished?







$48 \div 6 = 8$

3 Adam has 15 grapes and shares them onto five plates.  How many are on each plate? 3

He now shares 150 grapes onto five plates. How many are on each plate. Write the sum.

150 \div 5 = 30





4 Jane is calculating $42 \div 3$



T	O
	
	
	

Can you spot and explain her mistake?

She has incorrectly place one 10 in the ones column.

5 Jacob answers the question $44 \div 4$ using place value counters.

T	O
	
	

 Is he correct? Explain your reasoning. 

Jacob is incorrect. He has divided 44 by 2 not 4.