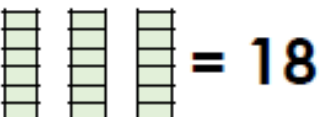


Bronze

1a. Write two number sentences which could be used to check the answer to:



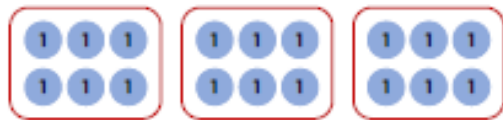
 $\square \div \square = \square$

 $\square \div \square = \square$



VF

2a. Using the fact $18 \div 3 = 6$, work out:





A. $6 \times 3 = \square$ B. $12 \times 3 = \square$

VF

3a. Use the inverse to complete the calculations below.

A. $35 = \square \times 5$


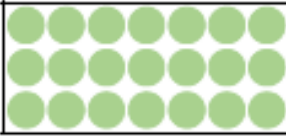
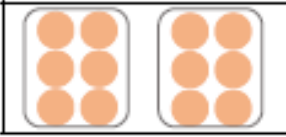
B. $\square = 6 \times 8$

C. $5 = 60 \div \square$

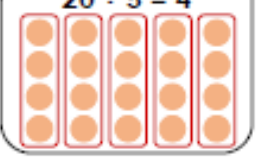
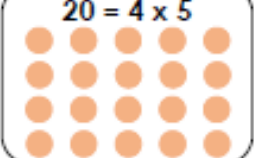


VF

4a. Match the related facts.

A. $40 \div 10 = 4$	1. 
B. 	2. $21 \div 3 = 7$
C. 	3. $4 \times 5 = 20$

1b. Circle the incorrect statement in the fact family shown below.

$20 \div 5 = 4$ 	$21 = 5 \times 4$
$4 \times 5 = 20$	$20 = 4 \times 5$ 

Explain your reasoning.



R

2b. Leyla draws the representation below.



She says,



$10 \times 6 = 60$

Is Leyla correct?

Prove it using the inverse operation.



R

3b. Match each child to the numbers below.



Leo

When I divide my number into 5 equal parts, I get 5.



Carly

My number multiplied by 3 is 18.



Seb

When I multiply my number by 4, I get the product 32.



8 
 25 
 6 

PS

5a. Write two number sentences which could be used to check the answer to:

$$72 \div 6 = 12$$

$$\square \times \square = \square$$

$$\square \times \square = \square$$



VF

6a. Using the fact $42 \div 7 = 6$, work out:

A. $6 \times 7 = \square$ B. $7 \times 12 = \square$



VF

7a. Use the inverse to complete the calculations below.

A. $72 = \square \times 6$


B. $56 = 7 \times \square$

C. $6 = 36 \square 6$



VF

8a. Match the related facts.

A. $66 \div 6$	1. $32 \div \underline{\quad} = 2$
B. 	2. six lots of eleven
C. 32 is a multiple of 16 and 2	3. $48 \div \underline{\quad} = 4$

4b. Circle the incorrect statement in the fact family shown below.

$42 = 6 \times 7$

$42 = 6 \div 7$

$42 \div 7 = 6$

$42 \div 6 = 7$

$42 = 7 \times 6$

$6 \times 7 = 42$

Explain your reasoning.



R

5b. Seema says,



I know that $48 \div 12 = 4$, so I also know that $12 \div 4 = 48$.

Is Seema correct? Explain how you know.



R

6b. Match each child to the numbers below.



Josh

When I divide my number into 12 equal parts, I get 3.



Seema

My number multiplied by itself is 81.



Archie

When I multiply my number by 6, I get the product 36.



PS

6

36

9

9a. Create two related number sentences using three of the numbers below.

108 5 9 12 20

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

$$\square \times \square = \square$$



VF

10a. Polly works out that 7 equal sized pieces of ribbon have a total length of 56cm.

How many pieces of ribbon would have a total length of 96cm?



VF

11a. Calculate the missing numbers and \times or \div symbols below.

A. $132 = \square \times 11$

B. $\square = 7 \square 12$

C. $\square = 8 \square 9$



VF

12a. Match the related facts.

A. $\square \div 12 = 12$

B. $96 \div \square = 8$

C. 6 and 12 are also factors of the missing number.

1. 16 and 36 are both factors of the missing number.

2. $9 \times 8 = \square$

3. Multiples of the missing number include 48 and 84.

7b. Circle the incorrect statement in the calculations below.

$108 \div 12 = 9$

$54 \div 9 = 6$

$9 \times 6 = 54$

$108 = 9 \times 12$

$108 = 12 \times 9$

$12 \div 9 = 108$

Explain your reasoning.



R

8b. Danny says,



If I know that $24 \div 8 = 3$, I can work out the answer to 3×16 .

Is Danny correct? Explain how you know.



R

9b. Each child below is describing the same number. What is their number?



Leah

I can divide the number into 12 equal parts.



Edna

One of its factors is 24.



David

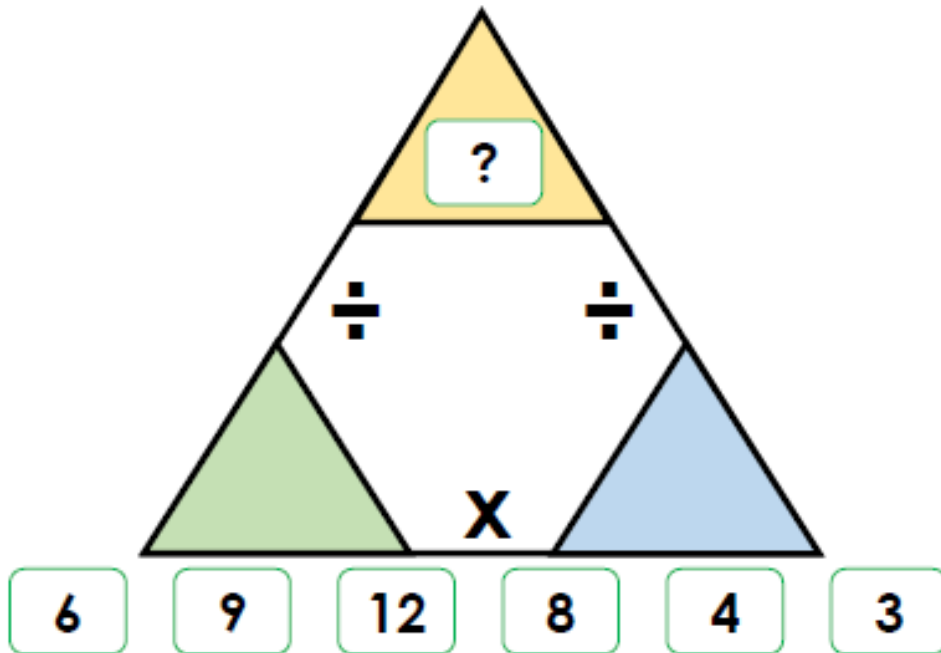
The digits of my number add up to 15.



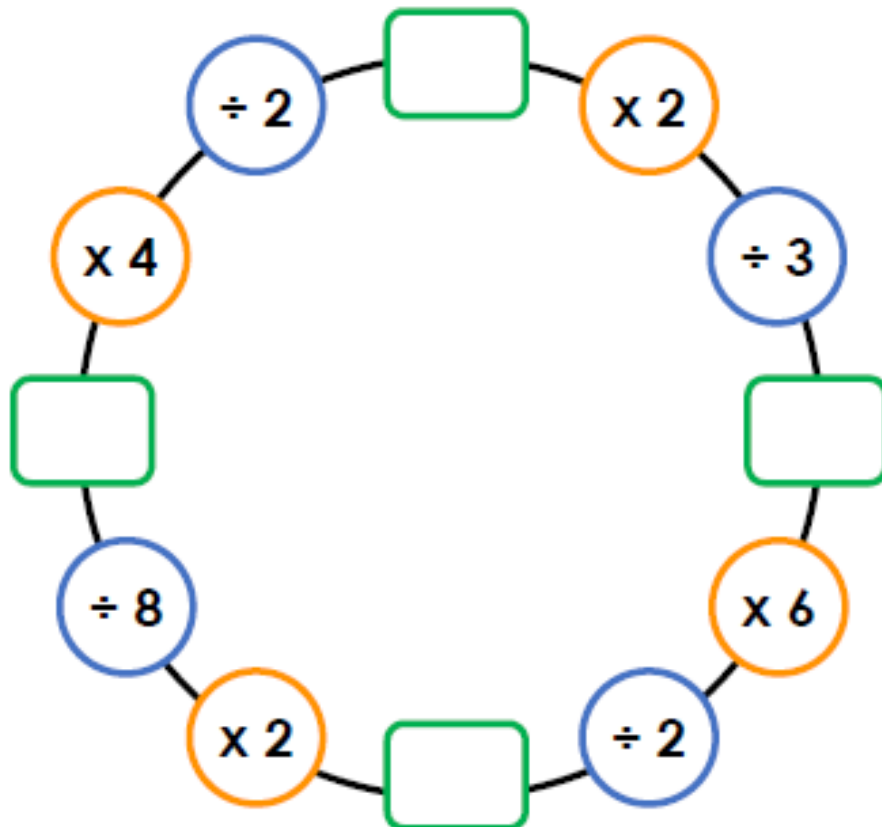
PS

Challenge

1. Investigate different ways to complete the inverse operations triangle using the given numbers along the base. Suggest the number that could be placed in the top to give the most possibilities? Is there more than one possible answer?



2. Investigate which numbers will complete the chain in a clockwise direction.



Is there more than one solution?