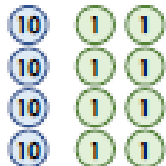


LO: To solve problems by dividing two digits by 1 digit

Challenge 1

1a. Three children have answered $48 \div 4$.



Holly	Elise	Jack
11	12	13

Who is correct? Explain how you know.



1b. Three children have answered $84 \div 4$.



Olive	Frank	Kari
22	21	23

Who is correct? Explain how you know.



2a. Which calculation is the odd one out?

$88 \div 4 =$ 	$55 \div 5 =$
$44 \div 2 =$ 	$66 \div 3 =$



2b. Which calculation is the odd one out?

$44 \div 4 =$ 	$50 \div 5 =$
$22 \div 2 =$ 	$33 \div 3 =$



3a. Match the following statements with the correct card.

	My calculation is solved correctly.
	My calculation is solved incorrectly.

$44 \div 4 = 11$ 	$33 \div 3 = 9$
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3b. Match the following statements with the correct card.

	My calculation is solved correctly.
	My calculation is solved incorrectly.

$66 \div 6 = 11$ 	$66 \div 3 = 21$
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Challenge 2

4a. Three children have answered $90 \div 5$.



Bill

Jane

Tom

15

9

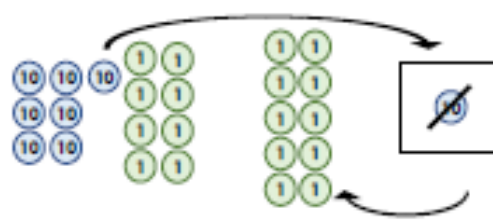
18

Who is correct? Explain how you know.



PS

4b. Three children have answered $78 \div 6$.



Molly

Ben

Lara

13

14

12

Who is correct? Explain how you know.



PS

5a. Which calculation is the odd one out?

$56 \div 4 =$

$70 \div 5 =$

$45 \div 3 =$

$84 \div 6 =$

$98 \div 7 =$



PS

5b. Which calculation is the odd one out?

$48 \div 3 =$

$64 \div 4 =$

$96 \div 6 =$

$80 \div 5 =$

$84 \div 7 =$



PS

6a. Match the following statements with the correct card.



My calculation needs no exchange.



My calculation is solved incorrectly.



My calculation needs to exchange.

$96 \div 8 = 12$

$65 \div 6 = 11$

$84 \div 4 = 21$



PS

6b. Match the following statements with the correct card.



My calculation needs no exchange.



My calculation is solved incorrectly.



My calculation needs to exchange.

$84 \div 7 = 12$

$88 \div 4 = 22$

$92 \div 4 = 24$



PS

Challenge 3

7a. Three children have completed a calculation where both missing digits are the same. They have recorded the digit that they think is missing.

$$4 \square \div 9 = \square$$

Amy

John

Karl

6

5

7

Who is correct? Explain how you know.



R

7b. Three children have completed a calculation where both missing digits are the same. They have recorded the digit that they think is missing.

$$6 \square \div 6 = 1 \square$$

May

Tim

Liam

2

1

0

Who is correct? Explain how you know.



R

8a. Create three calculations where a 2-digit number is divided by a 1-digit number to make the following statements true.

- The answer to calculation B is double the answer to calculation A.
- The answer to calculation C is less than calculation B but greater than calculation A.

A.

B.

C.



PS

8b. Create three calculations where a 2-digit number is divided by a 1-digit number to make the following statements true.

- The answer to calculation B is three times the answer to calculation A.
- The answer to calculation C is less than calculation B but greater than calculation A.

A.

B.

C.



PS

9a. Complete the calculations and match the following statements.



Nick

My answer is an even number.



Leila

My answer is less than 12.



Patsy

My calculation creates a number with the digit sum of 4.

$$\square \div 9 = 1 \square$$

$$91 \div 7 = \square$$

$$\square 4 \div 6 = 1 \square$$



PS

9b. Complete the calculations and match the following statements.



Victor

My answer creates a number with the digit sum of 3.



Joshua

My answer is greater than 12.



Graham

My answer has the same tens and ones digit.

$$\square 1 \div 7 = 1 \square$$

$$\square 7 \div 7 = 1 \square$$

$$72 \div 6 = \square$$



PS

Answers

Developing

1a. Elise is correct because $48 \div 4 = 12$.

2a. $55 \div 5 = 11$ because the other calculations have an answer of 22.

3a. Ellie; $44 \div 4 = 11$, Georgia; $33 \div 3 = 9$

Expected

4a. Tom is correct because $90 \div 5 = 18$.

5a. $45 \div 3 = 15$ because the other calculations have an answer of 14.

6a. Harry; $84 \div 4 = 21$, Sandra; $65 \div 6 = 11$, Paul; $96 \div 8 = 12$

Greater Depth

7a. John is correct because $45 \div 9 = 5$.

8a. Various answers, for example;
A. $72 \div 6 = 12$; B. $72 \div 3 = 24$; C. $65 \div 5 = 13$

9a. Nick; $84 \div 6 = 14$, Leila; $99 \div 9 = 11$, Patsy; $91 \div 7 = 13$

Developing

1b. Frank is correct because $84 \div 4 = 21$.

2b. $50 \div 5 = 10$ because the other calculations have an answer of 11.

3b. Cameron; $66 \div 6 = 11$, Harriet; $66 \div 3 = 21$.

Expected

4b. Molly is correct because $78 \div 6 = 13$.

5b. $84 \div 7 = 12$ because the other calculations have an answer of 16.

6b. Alice; $88 \div 4 = 22$, Daniel; $92 \div 4 = 24$, Kavita; $84 \div 7 = 12$

Greater Depth

7b. Liam is correct because $72 \div 6 = 12$.

8b. Various answers, for example;
A. $84 \div 7 = 12$; B. $72 \div 2 = 36$; C. $69 \div 3 = 23$

9b. Victor; $72 \div 6 = 12$, Joshua; $91 \div 7 = 13$, Graham; $77 \div 7 = 11$