Divide Decimals by Integers

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1a. True or false?

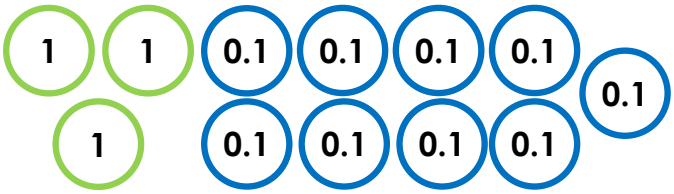
$$6.5 \div 5 = 1.5$$

Explain your answer.

D R

1b. True or false?

$$3.9 \div 3 = 3.3$$



Explain your answer.

D R

2a. Calculate the missing digits.

A.

	2	•	3
4	9	•	___

B.

	2	•	7
3	___	•	1

D PS

2b. Calculate the missing digits.

A.

	3	•	6
2	___	•	2

B.

	1	•	9
5	9	•	___

D PS

3a. Jaiden says,

I think that the answers to 2.4 ÷ 2 and 9.6 ÷ 3 are the same

o	t

Is he correct? Explain how you know.

D R

3b. Millie says,

I think that 8.8 ÷ 2 is greater than 4.4 ÷ 4

o	t

Is she correct? Explain how you know.

D R

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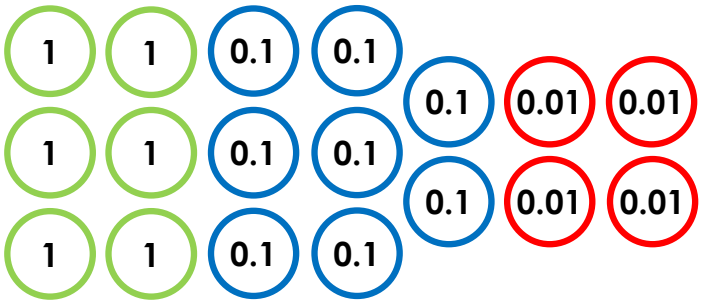
4a. True or false?

$$6.84 \div 4 = 1.73$$



Explain your answer.

E R

4b. True or false?

$$8.19 \div 9 = 0.81$$

Explain your answer.

E R

5a. Calculate the missing digits.

A.

	2	. 1	2
4	8	. ___	8

B.

	1	. 1	4
7	7	. 9	___

E PS

5b. Calculate the missing digits.

A.

	0	. 8	1
6	4	. ___	6

B.

	1	. 0	4
8	8	. 3	___

E PS

6a. Florence says,

I think that the answers to 4.48 ÷ 4 and 3.36 ÷ 3 are the same

Is she correct? Explain how you know.

E R

6b. Saad says,

I think that 8.88 ÷ 8 is greater than 4.44 ÷ 4

Is he correct? Explain how you know.

E R

Divide Decimals by Integers

7a. True or false?

eight ones, ten tenths and twenty-seven thousandths ÷ 9 = 1.03

Explain your answer.

GD

R

Divide Decimals by Integers

7b. True or false?

seven ones, eighty-nine hundredths and three thousandths ÷ 3 = 2.633

Explain your answer.

GD

R

8a. Calculate the missing digits.

A. 8.___08 ÷ 4 = 2.027

B. 8.79___ ÷ 2 = 4.399

GD

PS

8b. Calculate the missing digits.

A. 9.___54 ÷ 9 = 1.106

B. 7.02___ ÷ 7 = 1.003

GD

PS

9a. Nadia says,

I think that the answers to 9.018 ÷ 9 and 3.006 ÷ 3 are the same

Is she correct? Explain how you know.

GD

R

9b. Will says,

I think that 10.105 ÷ 5 is greater than 14.707 ÷ 7

Is he correct? Explain how you know.

GD

R

Reasoning and Problem Solving
Divide Decimals by Integers

Developing

1a. False, the answer is 1.3 because when dividing in the tenths column there are 3 lots of 5, not 5.

2a. A. 9.2; B. 8.1

3a. No because 2.4 ÷ 2 = 1.2 and 9.6 ÷ 3 = 3.2.

Expected

4a. False, the answer is 1.71 because when dividing in the hundredths column, there is only 1 lot of 4, not 3.

5a. A. 8.48; B. 7.98

6a. Yes because both calculations have an answer of 1.12.

Greater Depth

7a. False, the answer is 1.003 because there is a missing zero as a place holder in the hundredths column.

8a. A. 8.108; B. 8.798

9a. Yes because both calculations have an answer of 1.002.

Reasoning and Problem Solving
Divide Decimals by Integers

Developing

1b. False, the answer is 1.3 because when dividing in the ones column, there is only 1 lot of 3, not 3.

2b. A. 7.2; B. 9.5

3b. Yes because 8.8 ÷ 2 = 4.4 and 4.4 ÷ 4 = 1.1.

Expected

4b. False, the answer is 0.91 because when dividing in the tenths column, there are 9 lots of 9, not 8.

5b. A. 4.86; B. 8.32

6b. No because both calculations have an answer of 1.11.

Greater Depth

7b. False, the answer is 2.631 because when dividing in the thousandths column, there is 1 lot of 3, not 3.

8b. A. 9.954; B. 7.021

9b. No because 14.707 ÷ 7 = 2.101, so it is greater than 10.105 ÷ 5 = 2.021.