Fractions to Decimals 2

4. Circle the incorrect statement below by converting the fractions to decimals using the short division method.

A. $\frac{7}{8} = 0.78$

$$8 \overline{)\,7 \cdot 0\ 0\ 0}$$

B. $\frac{3}{4} = 0.75$

$$4 \overline{)\,3 \cdot 0\ 0\ 0}$$

C. $\frac{3}{5} = 0.6$

$$5 \overline{)\,3 \cdot 0\ 0\ 0}$$

D. $\frac{6}{5} = 1.2$

$$5 \overline{)\,6 \cdot 0\ 0\ 0}$$

E

VF
HW/Ext

5. Match the fraction to the correct calculation and corresponding decimal.

A.	$\frac{7}{5}$	2 ÷ 5	0.375
B.	$\frac{2}{5}$	3 ÷ 8	1.4
C.	$\frac{3}{8}$	7 ÷ 5	0.4

E

VF
HW/Ext

6. Steph and Sean are converting $\frac{5}{8}$ to a decimal using short division.



Steph: I did the calculation 5 ÷ 8 = 0.625



Sean: I did the calculation 8 ÷ 5 = 1.6

Who is correct?
Explain how you know.

E

RPS
HW/Ext

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Fractions to Decimals 2

7. Circle the incorrect statement below by converting the fractions to decimals using the short division method. Calculate answers to 3 decimal places.

A. $1\frac{5}{6} = 1.833$ ⌐ •

B. $\frac{9}{8} = 0.889$ ⌐ •

C. $2\frac{7}{8} = 2.875$ ⌐ •

D. $\frac{7}{3} = 2.333$ ⌐ •

Order the decimals in ascending order.

GD

VF
HW/Ext

8. Match the fraction to the correct calculation and complete the corresponding decimal equivalent.

A.	$\frac{13}{4}$	11 ÷ 8	
B.	$1\frac{3}{8}$	13 ÷ 8	
C.	$1\frac{5}{8}$	13 ÷ 4	

GD

VF
HW/Ext

9. Lucy and Josh are converting $2\frac{6}{8}$ to a decimal using short division.



I did the calculation 6 ÷ 8 = 0.75 then added 2.

Lucy



I did the calculation 22 ÷ 8 = 2.75

Josh

Who is correct?
Explain how you know.

GD

RPS
HW/Ext

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Homework/Extension
Fractions to Decimals 2

Developing

1. B is incorrect as 3 ÷ 5 = 0.6. A is correct.
2. A = 2 ÷ 8 = 0.25; B = 6 ÷ 8 = 0.75; C = 4 ÷ 5 = 0.8
3. Paula is correct. Lucas has calculated five halves rather than two fifths.

Expected

4. A is incorrect as 7 ÷ 8 = 0.875. B, C and D are correct.
5. A = 7 ÷ 5 = 1.4; B = 2 ÷ 5 = 0.4; C = 3 ÷ 8 = 0.375
6. Steph is correct. Sean is incorrect as he has calculated eight fifths rather than five eighths.

Greater Depth

7. B is incorrect as 9 ÷ 8 = 1.125. A, C and D are true.
Order: B, A, D, C
8. A = 13 ÷ 4 = 3.25; B = 11 ÷ 8 = 1.375; C = 13 ÷ 8 = 1.625
9. They are both correct. Lucy partitioned her fraction to calculate the decimal equivalent. Josh converted his into an improper fraction and then divided by 8.

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