

Do every 3rd question! 😊

Name: _____

Date: _____

Section 3.5 Dividing Rational Numbers

1. Multiply the following. Keep your answers as a fraction in simplest form. No calculators:

a) $\frac{3}{4} \div \frac{9}{12}$ $\frac{3}{4} \times \frac{12}{9} = 1$	b) $\frac{3}{7} \div \frac{21}{14}$	c) $\frac{18}{13} \div \frac{27}{39}$	d) $\frac{21}{8} \div 1\frac{3}{4}$ $\frac{3}{2}$
e) $\frac{32}{22} \div \frac{16}{33}$	f) $\frac{24}{15} \div \left(-1\frac{3}{5}\right)$	g) $\frac{24}{55} \div \frac{36}{25} \div \frac{35}{81}$ $\frac{54}{77}$	h) $2\frac{8}{21} \div \frac{70}{27} \div 2\frac{6}{27}$
i) $2.25 \div 1.25$	j) $2\frac{2}{3} \div 0.888$ $2\frac{2}{3} \div \frac{8}{9} = 3$	k) $0.3 \div 0.555$	l) $1.\overline{66} \div 0.25$
m) $3.20 \div -0.4$ $\frac{3.20 \times 10}{-0.4 \times 10} = \frac{32}{-4} = -8$	n) $-12.80 \div 0.4$	o) $0.75 \div 0.875$	p) $0.021 \div -0.03$ $\frac{0.021 \times 1000}{-0.03 \times 1000} = \frac{21}{-30} = -0.7$
q) $0.8 \div (-0.4) \div (0.75)$	r) $\frac{12}{25} \div \frac{42}{125} \div \frac{-15}{48}$ $\frac{12}{25} \times \frac{125}{42} \times \frac{48}{-15} = -\frac{32}{7}$	s) $0.875 \div 0.75 \div 0.8$	t) $0.25 \div 8.\overline{33} \div 0.6$

2. Determine the missing number in the box so that the expression will be true:

a) $\frac{2}{4} \div \boxed{\frac{5}{8}} = \frac{4}{5}$	b) $0.4 \div \boxed{} = 1.\overline{333} = 1\frac{3}{9} = \frac{12}{9}$ $\frac{3}{10}$	c) $1.25 \div \boxed{} = 1.\overline{666} \rightarrow 1.\overline{6}$ $\frac{3}{4}$
d) $-1.26 \div \boxed{} = 0.2$ $-\frac{63}{10}$	e) $-1.4 \div \boxed{} = 1.\overline{777}$ Skip!	f) $\boxed{} \div 1.2 = 2.25$ $\frac{27}{10}$

3. Jason has 14.70 in his wallet. He wants to buy candies that cost \$0.35 each. How many can he purchase?

Skip for now!

4. A plant grew 1.25 inches every day. How many days will it require the plant to grow 36.5 inches?

Skip for now!

5. David owns 40 shares of Apple stocks and the value dropped \$2250.25. What was the drop of each share?

Skip for now!

6. At 9pm, the temperature was 14.6° and at 3am, the temperature was -5.3° . What was the mean change in temperature? (ie: change in temperature each hour)

Skip for now!

7. Evaluate without a calculator: $\left(\frac{\overline{1.428571} \div 1.4}{0.777 \times 0.333}\right)^2$

Skip for now!

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