

Name: _____

Date: _____

Section 3.4 Multiplying Rational Numbers

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

a) $\frac{2}{5} \times \frac{15}{18}$	b) $\frac{4}{7} \times \frac{14}{24}$	c) $\frac{12}{28} \times \frac{42}{15}$	d) $\frac{12}{5} \times \frac{25}{6}$
e) $\frac{27}{8} \times \frac{24}{81}$	f) $\frac{25}{27} \times \frac{36}{45}$	g) $\frac{54}{56} \times \frac{18}{10} \times \frac{64}{81}$	h) $\frac{8}{21} \times \frac{18}{36} \times \frac{24}{27}$
i) 1.25×0.375	j) $1\frac{11}{16} \times 0.\overline{888}$	k) $1\frac{3}{7} \times 0.\overline{777}$	l) 0.64×0.25
m) 0.25×-0.60	n) $-0.\overline{8333} \times 1.5$	o) $1.\overline{333} \times 0.875$	p) 1.25×-3.2
q) $3.2 \times (0.1\overline{666}) \times (2.5)$	r) $\frac{8}{15} \times \frac{27}{20} \times \frac{-15}{18}$	s) $1.23 \times 2.8 \times 1.2$	t) $0.026 \times 4 \times 5.2$

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

a) $\frac{3}{4} \times \boxed{\quad} = \frac{5}{8}$	b) $2.40 \times \boxed{\quad} = 1.\overline{333}$	c) $1.875 \times \boxed{\quad} = 4.5$
d) $-3.25 \times \boxed{\quad} = 15\frac{11}{40}$	e) $-0.045 \times \boxed{\quad} = 0.18$	f) $6.75 \times \boxed{\quad} = 5.25$

3. $\frac{5}{9}$ of the students are passing in Science class and $\frac{3}{5}$ of these students are getting A's. What fractions of all students are getting A's?

4. A plant grew $2\frac{5}{8}$ of an inch every day. How many inches will it grow in $12\frac{1}{3}$ days?

5. David ran $2\frac{1}{3}$ laps around a track in 1 hour. How many laps can he run in $3.75h$ if he maintained the same speed?

6. Challenge: Sharon has some money in her pocket. Her friend Wendy has $1\frac{1}{2}$ times as much as Sharon. Another friend Chelsea has $1\frac{2}{3}$ times as much money as Wendy. Altogether they have \$200. How much money does Sharon have?