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## Extra Practice

## BLM 1.2

1.2 Operations With Rational Numbers

1. Insert brackets to make each equation true.
a) $\frac{2}{3}+4 \times \frac{1}{2}+\frac{1}{4} \div 3=\frac{5}{3}$
b) $0.5^{2}-0.1 \times 8 \div 2=0.6$
c) $-2 \times 18.5-6.3 \div 4=-6.1$
2. Evaluate when $a=3, b=6$, and $c=\frac{1}{2}$.

Use estimation to help simplify your calculations. Show your work.
i) $a \times(b+c)$ $\qquad$
ii) $b^{2}+a$ $\qquad$
iii) $a \times b \times c$ $\qquad$
iv) $b \div c \times a$ $\qquad$
v) $(b \times c)^{3}+a^{2}$ $\qquad$
3. Evaluate when $x=0.5, y=7.2$, and $z=-1.8$. Use estimation to help simplify your calculations. Show your work.
a) $y^{2}-z$
b) $x^{2}+y^{2}+z^{3}$ $\qquad$
c) $y \div x+z$ $\qquad$
d) $x \bullet y \bullet z$ $\qquad$
e) $x \bullet(y-z)$ $\qquad$
4. Marion and her 5 friends bought 3 pizzas.

Each person ate $\frac{3}{8}$ of a pizza. How much pizza is left?
5. During their vacation, the Robichaud family spent $\frac{1}{4}$ of their money on gas, $\frac{3}{5}$ of their money on food and hotels, and $\frac{1}{8}$ of their money on tourist attractions.
a) What fraction of their money did they spend altogether?
b) If they had $\$ 1840$ before their vacation started, how much money did they spend on gas, food, hotels, and tourist attractions? How much is left over?
6. How many hours are there in $3 \frac{1}{4}$ weeks?
7. The temperature in Truro, on average, decreased by $1.3^{\circ} \mathrm{C} / \mathrm{h}$ during a night.
a) How much did the temperature drop from 1:00 А.м. to 6:00 А.м.?
b) If the temperature was $2^{\circ} \mathrm{C}$ at 1:00 A.M., what is the temperature at 6:00 А.м.?
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8. Which statements are always true, sometimes true, or always false? Give examples to prove your answers.
a) If you subtract a negative rational number from another negative rational number, the result is always less than zero.
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b) The sum of two natural numbers is greater than each of the two numbers.
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c) When you subtract a rational number from another rational number, you get an integer.
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d) The square of a rational number that is not zero is negative.
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e) The product of two negative rational numbers is greater than each of the two original numbers.
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f) The product of two rational numbers is zero.
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