

Name: _____

Date: _____

adapted from: BLM 1-3

Section 1.2 Extra Practice

1. Estimate each answer. Then, use a calculator to determine the exact answer.

a) $0.56 + (-3.14)$

EST: $1 + (-3)$
 $= -2$

$$\boxed{-2.58}$$

b) $-0.741 + 1.982$

EST: $-0.7 + 2$
 $= 1.3$

$$\boxed{1.241}$$

2. Estimate each answer. Then, use a calculator to determine the exact answer.

a) -4.2×6.5

EST: -4×7
 $= -28$

$$\boxed{-27.3}$$

b) $-6 \div 22$

EST: $-\frac{6}{20} = -\frac{3}{10}$
 $= -3 \div 10 = -0.3$

$$\boxed{-0.27}$$

3. Calculate each answer.

a) $-6.2 + (-0.72) \div (-1.3 + 0.4)$

$$= -6.2 + \frac{-0.72}{-0.9}$$
$$= -6.2 + 0.8$$
$$= \boxed{-5.4}$$

b) $-6.2 \times (-4.2) - 1.02 \div 0.51$

$$= 26.04 - 2$$
$$= \boxed{24.04}$$



For the following word problems, write an expression using rational numbers to represent the problem. Then calculate the answer and write a concluding sentence.

4. On a cold winter Monday in Calgary, the temperature reached a high of -12°C . On Tuesday, the high went up by 4°C . On Wednesday, it went down 11°C . On Thursday, it went up by 9°C . On Friday, it cooled down by 3°C . What was the temperature on Friday?

$$\begin{aligned} & -12 + 4 - 11 + 9 - 3 \\ = & \quad -8 - 11 + 9 - 3 \\ = & \quad -19 + 9 - 3 \\ = & \quad -10 - 3 \implies -13 \end{aligned}$$

It was -13°C
on Friday

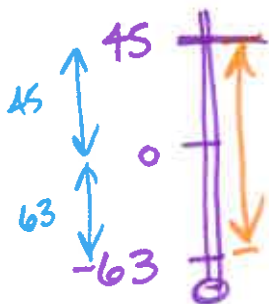
5. As a fundraiser, the student council ordered 130 birthday cards with a picture of the school's logo. The cards cost the student council $\$1.45$ each. They sold 126 cards for $\$2.00$ each. How much profit did the student council make on their birthday card sale?

profit = income - expense

$$\begin{aligned} & (126 \times 2.00) - (130 \times 1.45) \\ = & 252 - 188.50 \\ = & 63.5 \end{aligned}$$

They made
 $\$63.50$
profit

6. The hottest day in Canada on record was on July 5, 1937, in Midale and Yellowgrass, Saskatchewan, when the temperature peaked at 45°C . The coldest day in Canada was in Snag, Yukon, at -63°C . What is the difference in temperature between the hottest day and coldest day in Canada?



$$\begin{aligned} & 45 + 63 \\ & 45 - (-63) = 108 \end{aligned}$$

The difference is
 108°C