

1 Which expression is the best estimate of  $1.25 + (-2.69)$ ?

- A  $1 + (-3)$                       C  $2 + (-3)$   
B  $1 + (-2)$                       D  $2 + (-2)$

Sue chose **B** as the correct answer. How did she get that answer?

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How might a number line help you estimate decimals?



2 Which expression is the best estimate of  $1\frac{1}{5} \times 3\frac{2}{3}$ ?

- A  $2 \times 4$   
B  $1 \times 4$   
C  $2 \times 3$   
D  $1 \times 3$

Should you round each value up or down?



3 The answer to which situation is best estimated by  $-7$ ?

- A The temperature falls  $1.9^\circ\text{F}$  from  $4.3^\circ\text{F}$ .  
B A hot-air balloon rises 4.1 meters from the ground and then rises 2.3 meters more.  
C A submarine goes 3.8 feet below the surface of the ocean and then goes 2.5 feet farther down.  
D The amount of money Sarah has after she buys milk for  $\$3.85$  and bread for  $\$2.45$ .

How can you estimate decimal amounts?



4 Tell whether each statement is *True* or *False*.

- a.  $-3\frac{3}{4} + 1 = -3\frac{2}{3} - (-1)$   True  False
- b.  $2.855 - 1.375 = 1.48$   True  False
- c.  $-12\frac{7}{12} + (-9\frac{5}{6}) = 3\frac{7}{12}$   True  False
- d.  $6\frac{2}{5} - (-7\frac{1}{10}) = 13\frac{1}{2}$   True  False

Can you tell if the sum or difference will be positive or negative?



5 Justin earned \$25.67 one week and \$37.85 the next week. He also purchased a DVD for \$19.99 and gas for his car for \$22.07. He started with a zero balance in his checking account. Justin recorded all of these transactions in his checkbook and ended up with a balance of \$105.58. Was his balance correct? If it was, write an equation to support the answer. If not, find the correct balance.

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An estimate might help you determine whether Justin is correct.



6 Write a sum, difference, product, and quotient whose answers could all have an estimate of about 6. One expression should include only mixed numbers, one expression should include only decimals, one expression should include only negative rational numbers, and one expression should include only positive rational numbers.

Sum: \_\_\_\_\_

Difference: \_\_\_\_\_

Product: \_\_\_\_\_

Quotient: \_\_\_\_\_

When do you round a rational number up? When do you round a rational number down?

