Name_____   Period _____   Date _____

8-4, 8-5 PRE-ASSESSMENT

1. Choose ALL fractions below that are equivalent to $\frac{4}{6}$.

    A. $\frac{-2}{-3}$ B. $-\frac{1-(-1)}{-4-(-1)}$ C. $\frac{8}{12}$ D. $\frac{-12}{18}$

2.   Choose ALL expressions below that have a difference of -7.

    A.   -8 – 1   B.   10 – 17   C.   -3 – 4   D.   5 – (-2)

3. Compute. -500 – (-250)

    A.   -250   B.   250   C.   750   D.   -750

4. Choose ALL of the following expressions that are equivalent to 5 – (-3).
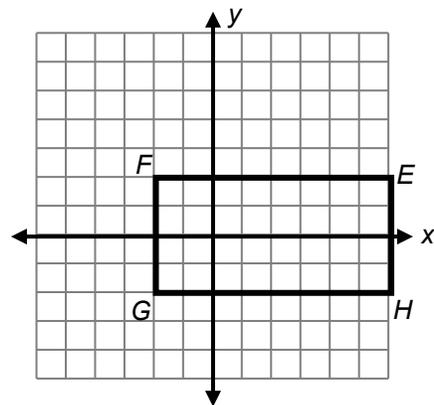
    A.   5 – 3   B.   -5 + (-3)   C.   5 + 3   D.   -5 – 3

Use the diagram at the right for problems 5 and 6.
All small squares are equal to 1 square unit of area.

5. What are the coordinates for F?

    A.   (2, 2)   B.   (-2, 2)

    C.   (2, -2)   D.   (-2, -2)

6. Find $|EF|$.

    A.   4 units   B.   8 units

    C.   -4 units   D.   -8 units

For problems 7-8, Valcor is saving for a tablet that costs $500. He saves $55 every 2 weeks.

7. How much will he save after 8 weeks?

    A. $110   B. $220   C. $440   D. $27.50

8. Choose the equation that describes Valcor's saving plan. Let w represent the number of weeks and T represent the total amount saved.

    A. $T = \frac{w}{55}$ B. $T = 55w$ C. $T = 27.5w$ D. $T = \frac{w}{220}$

8-4, 8-5 PRE-ASSESSMENT
Continued

9. Isaiah sold nut bars to help raise money for his scout troop. The table represents the money he received for different numbers of bars he sold. Circle all of the true statements.

# of nut bars sold (x)	2	4	8	12
money received in $ (y)	2.50	5	10	15

A. This is not a proportional relationship because (0, 0) is not in the table.

B. This is a proportional relationship because if graphed, the points lie on a straight line through the origin.

C. This is not a proportional relationship because the ratio of money received to bars sold is not constant.

D. The unit rate is $2.50 per bar.

E. An equation that represents this relationship is $y = 1.25x$

F. An equation that represents the relationship is $5y = 4x$

G. If graphed, the point (1, 1.25) would represent the unit rate.

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10. Hailey is training for a half marathon. The graph represents her run today. Circle ALL statements that are true about her run.

A. She ran at a constant rate of 4 miles per hour.

B. She ran 8 miles in one hour.

C. The equation that describes her run is $d = 8t$.

D. The equation that describes her run is $t = 8d$.

E. At this rate, she will run 15 miles in less than 2 hours.

Hailey's Run

distance in mi (d) — time in hr (t)