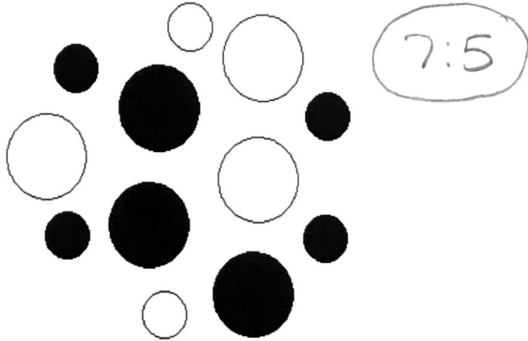


## Spiral Review Day

### Step 1: Ratio and Unit Rates Review

1. What is the ratio of black dots to white dots?



2. Mia walked 1.35 miles home from school. She then decided get a snack from Pat's Place. She walked an additional 0.85 miles. If she spent a total of 45 minutes walking after school, what was her average walking speed?

$$\frac{2.2 \text{ mi}}{45 \text{ min}} = 0.05 \text{ mi per min}$$

or

$$2.93 \text{ mi per hour}$$

-----Checkpoint-----

### Step 2: Unit 5 (Percent) Review

1. Steve has \$45. He needs \$80 to meet his goal. What percent of his goal does he have?

$$\frac{45}{80} = 0.56 = 56\%$$

2. Jessica's teacher set a goal for the class to bring in 200 cans for the food drive. The class brought in 320 ~~320~~ cans. What percent of the goal did the class meet?

$$\frac{320}{200} = 1.6 = 160\%$$

3. Maria earned a 94 on her most recent test. On her previous test she earned a 75. What is the percent of change in her test scores?

$$\frac{19}{75} = 0.25 = 25\%$$

increase

4. Complete each line below:

A) What is 8% of 80? 6.4

B) What is 60% of 24? 14.4

C) What is 108% of 20? 21.6

D) What is 5.25% of 70? 3.675 or 3.68

-----Checkpoint-----

### Step 3: Did you score below 80% on the test? If yes, work on test corrections. If no, continue to Step 4.

Test Correction Requirements:

- Must use a separate sheet of paper
- Work must be shown ("No work, no credit")
- Final answer must be rewritten on the original test NEXT to previous answer
- Rewritten answer must be in a DIFFERENT COLOR (colored pencil or pen)

-----Checkpoint-----

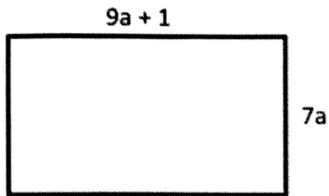
**Step 4: Unit 4 (Equations and Inequalities) Review:**

1a. Write an equation for the perimeter of the rectangle

Below when its perimeter is equal to 66 units.

$$18a + 2 + 14a = 66$$

1b. Solve for the value of a.  $32a + 2 = 66$



$$a = 2$$

3. Ryan already has \$50 but needs a total of at least \$250 for his trip. He gets paid \$12 per day for delivering papers. What is the least number of days he must work to have enough money for his trip?

Inequality:  $12d + 50 \geq 250$

Solution(s):  $d \geq 17 \text{ days}$

$$12d \geq 200$$

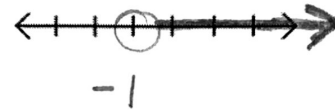
$$16.67 \rightarrow 17 \text{ days}$$

2. Solve for x. Then graph the solutions on the number line below.

$$-6(2x - 4) < 36$$

$$-12x + 24 < 36$$

$$-12x < 12 \quad x > -1$$



4. This weekend Jana spent 65 minutes doing homework. This is 5 minutes fewer than twice the amount of time that she spent doing homework last Weekend. What equation represents this situation if m represents the number of minutes she did homework last weekend?

A)  $65 - 5 = 2m$

B)  $5 - 2m = 65$

C)  $2m + 5 = 65$

D)  $2m - 5 = 65$

5. The cost of using Expert Internet Service is a one-time fee of \$25 plus a monthly fee of \$10. You spent a total of \$295 on this service.

a) Using m for the number of months, write an equation for this scenario.  $10m + 25 = 295$

b) How many months did you use this service?  $m = 27 \text{ months}$

### Step 5: Mixed Review

What is an equivalent expression for  $\frac{2}{3} - \frac{4}{5}$ ?

- A)  $\frac{2}{3} + \frac{4}{5}$
- B)  $\frac{2}{3} + (-\frac{4}{5})$
- C)  $-\frac{2}{3} + \frac{4}{5}$
- D)  $-\frac{2}{3} + (-\frac{4}{5})$

The cost of using Expert Internet Service is a one-time fee of \$25 plus a monthly fee of \$10. What is the total cost of using Expert Internet Service for 8 months?

- A) \$105
- B) \$133
- C) \$250
- D) \$280

Use the equation below to answer the question.

$$a + b = c$$

If  $a > 0$  and  $c < 0$ , what must be true about  $b$ ?

- A)  $b > 0$
  - B)  $b < 0$
  - C)  $b = 0$
  - D)  $b = c$
- Handwritten:  $1 + b = -1$*

Fourteen out of 56 students got an A on the math test.

What percent of students got an A?

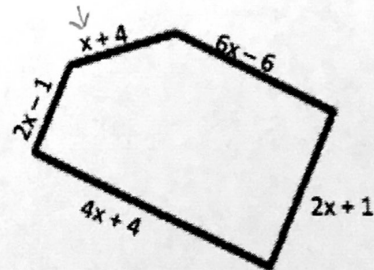
- A) 4%
- B) 400%
- C) 0.25%
- D) 25%

Solve the inequality.  $-0.3n \leq 5.4$

- A)  $n \leq -18$
- B)  $n \leq -1.8$
- C)  $n \geq -1.8$
- D)  $n \geq -18$

If the perimeter of the shape below is 47 units, find the value of  $x$ .

- A) 2.07
- B) 47
- C) 3
- D) 3.27
- E)  $17x$



*Handwritten:*  
 $15x + 2 = 47$   
 $15x = 45$

15% of the class earned a C on the test. If 9 students earned a C, what is the total number of students in the class?

Which answer option offers the correct equation and solution?

- A)  $0.15x = 9$       $x = 60$
- B)  $15(9) = x$       $x = 135$
- C)  $0.15(9) = x$       $x = 1.35$
- D)  $9x = 0.15$       $x = 0.02$