

Name: Answer Key

Date: \_\_\_\_\_

**AZMerit Practice Homework #20**

1. What value of  $n$  makes the number sentence below true?

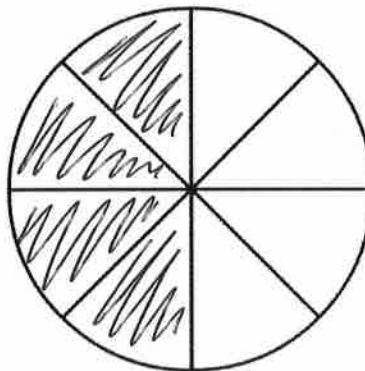
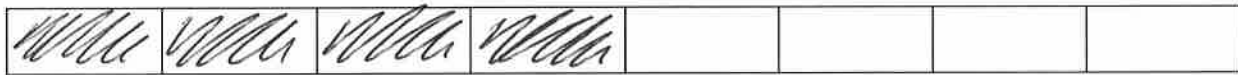
$$20 + 20 = 2 \times n \quad n = \underline{20}$$

$$40 = 2 \times n \quad 2 \times 2 = 4$$

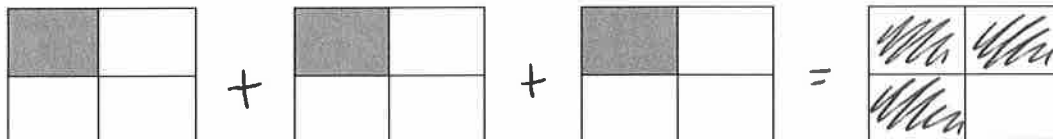
$$2 \times \underline{\quad} = 40 \quad 2 \times 20 = 40$$

2. Shade the two diagrams below to represent fractions equivalent to  $\frac{1}{2}$ .

(Multiple correct answers. They should shade 4 pieces of each.)



3a. The diagram below represents the sum of  $\frac{1}{4}$ ,  $\frac{1}{4}$ , and  $\frac{1}{4}$ . Shade the last grid to show the sum of  $\frac{1}{4}$ ,  $\frac{1}{4}$ , and  $\frac{1}{4}$ .



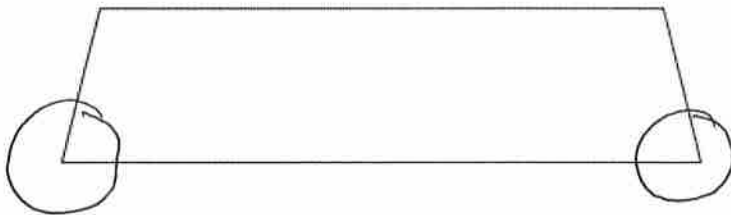
What is the sum of  $\frac{1}{4}$ ,  $\frac{1}{4}$ , and  $\frac{1}{4}$ ? Write your answer below.

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3b. On the lines below, explain how the diagram helped you find the sum. (Possible explanation)

The diagrams helped me because they each showed 1 piece shaded out of 4. So I can add up all the shaded pieces, which is 3 out of 4. That lets me know that the sum is  $\frac{3}{4}$ .

4. A trapezoid is shown below. Circle **all** the acute angles of the trapezoid below. Then, on the lines below, explain how you can determine whether the angles are acute without measuring them.



I know that acute angles are less than  $90^\circ$ . A  $90^\circ$  angle is like the corner of a square or rectangle. So those two angles in the trapezoid are smaller than  $90^\circ$ .

5. Joseph earns \$8 per hour. He wants to earn \$360 each week. How many hours will Joseph have to work to earn \$360? Write your answer below.

$$\begin{array}{r} 045 \\ 8 \overline{) 360} \\ \underline{-0 \downarrow} \\ 36 \downarrow \\ \underline{-32 \downarrow} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

45 hours