

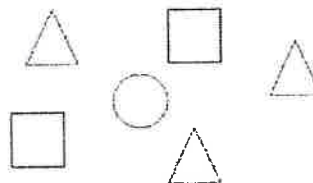
# Unit 5 Ratios and Rates Review

Solve the problems below. Be sure to show your thinking.

1. Maggie is participating in her school reading challenge. She reads 40 books in six months. If 26 of the books are fiction, then what decimal represents the fraction of the 40 books are fiction?

- A. 0.23
- B. 0.26
- C. 0.65
- D. 0.35

2. What is the ratio of circles to triangles? Write your ratio with a colon.



3. Which statement best describes the table?

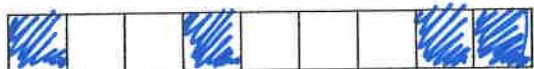
Days (d)	Total Laps (L)
1	18
2	36
3	54

- A. The ratio of laps to days is 1:18.
- B. In 5 days, 80 laps will be completed.
- C. The ratio of days to laps is 1:18.
- D. In 8 days, 142 laps will be completed.

4. The students at Hunking School were selling raffle tickets to raise money for the tornado victims. The table shows the percentage of their tickets each grade level had sold. If the 6<sup>th</sup> grade had 775 tickets to sell, how many tickets had the 6<sup>th</sup> grade sold after the 1<sup>st</sup> week??

Grade	Percentage Sold After 1 <sup>st</sup> Week
8 <sup>th</sup>	40%
7 <sup>th</sup>	45%
6 <sup>th</sup>	56%

5. The model below shows the ratio of gray to white squares. Which of the following is **not** an equivalent ratio of gray squares to white squares?



- A.  $\frac{8}{10}$
- B.  $\frac{24}{30}$
- C.  $\frac{36}{48}$
- D.  $\frac{20}{25}$

6. Northside High School is having a spaghetti dinner fundraiser. In order to advertise, students place flyers on neighborhood doors. Landon hands out 120 flyers in 2 hours. Fernando hands out 29 flyers in 30 minutes. Which equation can be used to determine  $f$ , the number of flyers Fernando handed out in two hours?

~~A.  $\frac{29}{30} = \frac{f}{2}$~~       ~~B.  $\frac{120}{f} = \frac{2}{30}$~~   
~~C.  $\frac{29}{2} = \frac{f}{120}$~~       ~~D.  $\frac{120}{30} = \frac{f}{29}$~~

Write your  
Own  
Proportion

7. The NFL regulation extra point is kicked 12 yards from the goal. How many inches away from the goal is the extra point kick?

8. A bag of movie popcorn contains 855 calories per 4.5 servings. Which of the following is an equivalent number of calories per serving?

- A. 190 calories per 2 servings
- B. 475 calories per 2.5 servings
- C. 1,235 calories per 6 servings
- D. 575 calories per 3 servings

9. Taron took a survey of his team's students and made the table below from the data.

Food	Number of Students
Turkey	50
Dressing	36
Green Beans	20
Mashed Potatoes	30
Cranberries	24

What fraction of the students preferred mashed potatoes?

- A.  $\frac{1}{8}$
- B.  $\frac{1}{3}$
- C.  $\frac{3}{16}$
- D.  $\frac{2}{5}$

10. The table shows the time Sam spent working at HEB.

Time worked (hours)	Amount Earned (dollars)
10	110.10
18	198.18
24	264.24
30	330.30

Based on the information in the table, how much will Sam earn if he works 36 hours in a week?

11. Look at the tables of values below.

x	2	1	3	6
y	8	4	12	24

Which set of values do NOT belong to this table?

A

x	5	9
y	20	36

C

x	25	8
y	100	32

B

x	10	11
y	40	44

D

x	35	7
y	130	28