

Common Assessment 4B Circuit Review

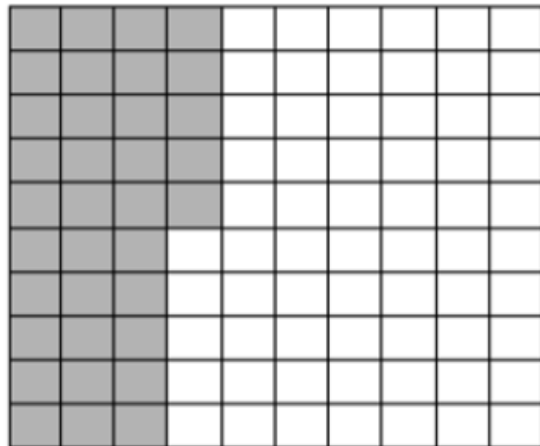
CIRCUIT REVIEW
6th Math Common Assessment
Unit #4B Ratios-percents
Form B (6.4E, 6.4F, **6.4G, **6.5B**, 6.5C)**

Question #	Answer	TEKS
1	C	6.4E
2	B	6.4E
3	D	6.4G
4	A	6.4G
5	C	6.4G
6	D	6.5B
7	B	6.5B
8	B	6.5B
9	A	6.5C
10	D	6.4F

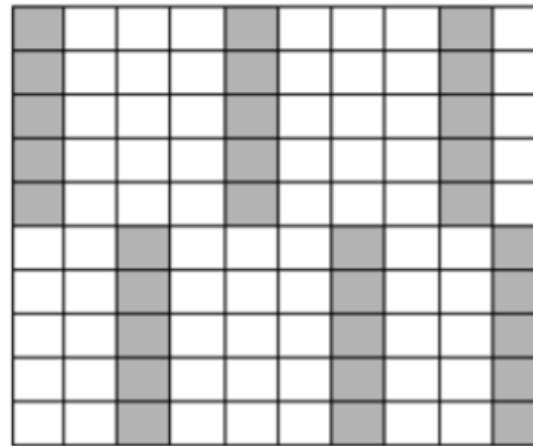
1. Which model represents 30%?

(6.4E)

A

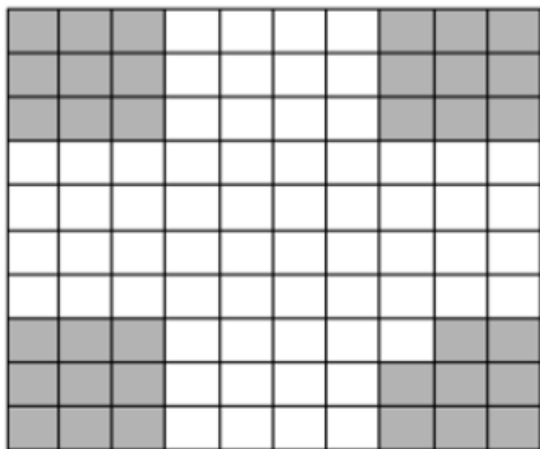


C

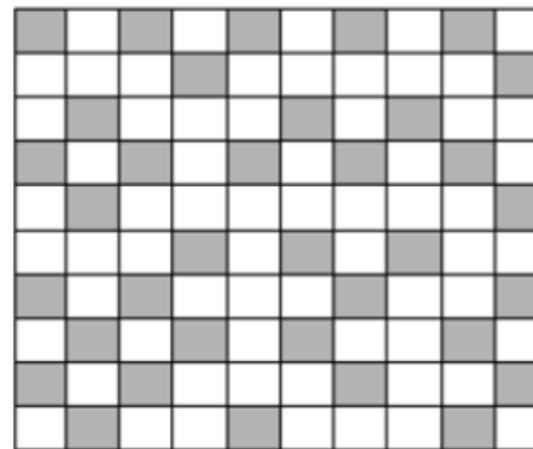


30 out
of 100
is 30%

B



D



2. May had a bag of colored stones for a game. In the bag, there were 7 red stones, 8 blue stones, 6 yellow stones, and 4 green stones. What percent of the colored stones are yellow? (6.4E)

$$\begin{array}{r} 7 \\ 8 \\ 6 \\ \hline 25 \end{array} \quad \frac{6}{25} = \frac{24}{100} \quad 24\%$$

- A. 16% **B. 24%** C. 28% D. 32%

(6.4G)

3. Mary answered 22 questions correctly on her math exam. If there were 25 questions on the math exam, which decimal represents the questions she got correct?

$$\frac{22}{25} = \frac{88}{100}$$

A. 0.22

B. 0.25

C. 0.75

☒ D. 0.88

(6.4G)

4. It was sunny 73.2% of the days in January. Which is NOT equivalent to

$$73.2\%? \quad 73.2\% = \frac{73.2}{100} = \frac{732}{1000} = 0.732$$

C
D
B

A. $\frac{73.2}{1000}$

B. 0.732

C. $\frac{73.2}{100}$

D. $\frac{732}{1000}$

(6.4G)

5. Mandi had bought some gum for \$0.36. What fractional part of a dollar is \$0.36?

$$0.36 = \frac{36}{100} \overset{\div 2}{=} \frac{18}{50} \underset{\div 2}{=}$$

A. $\frac{36}{1000}$

B. $\frac{1}{36}$

☒ C. $\frac{18}{50}$

D. $\frac{3}{70}$

(6.5B)

6. At Myers Middle School, there are 750 students.

$\begin{array}{r} 20\% \\ + 40\% \\ \hline 60\% \end{array}$ { Twenty percent of the students are in athletics and forty percent of the students are in a fine arts activity, and students are not allowed to participate in both.

$\begin{array}{r} 100\% \\ - 60\% \\ \hline 40\% \end{array}$ { How many students do NOT participate in either activity?

- A. 225 students
- B. 375 students
- C. 150 students
- (D.) 300 students**

$$\begin{array}{r} \cancel{40} \times \\ \hline 100 = \frac{x}{750} \\ 100x = \cancel{30000} \\ \hline 100 \quad \cancel{100} \\ x = 300 \end{array}$$

(6.5B)

7. Of the 175 stickers on a sheet, 28% are yellow. What is the total number of yellow stickers on the sheet?

- A. 28
☒ B. 49
 C. 56
 D. 147

$$\frac{28}{100} = \frac{x}{175}$$

$$\frac{100x}{100} = \frac{4900}{100}$$

$$x = 49$$

$$\begin{array}{r} 175 \\ \times 28 \\ \hline 1400 \\ + 3500 \\ \hline 4900 \end{array}$$

8. At Gotham High School there are 540 total students. $\frac{1}{2}$ of the students either ride a bike or walk to school, and 90 students go to school by car. The rest ride the bus. How many students ride the bus to school?

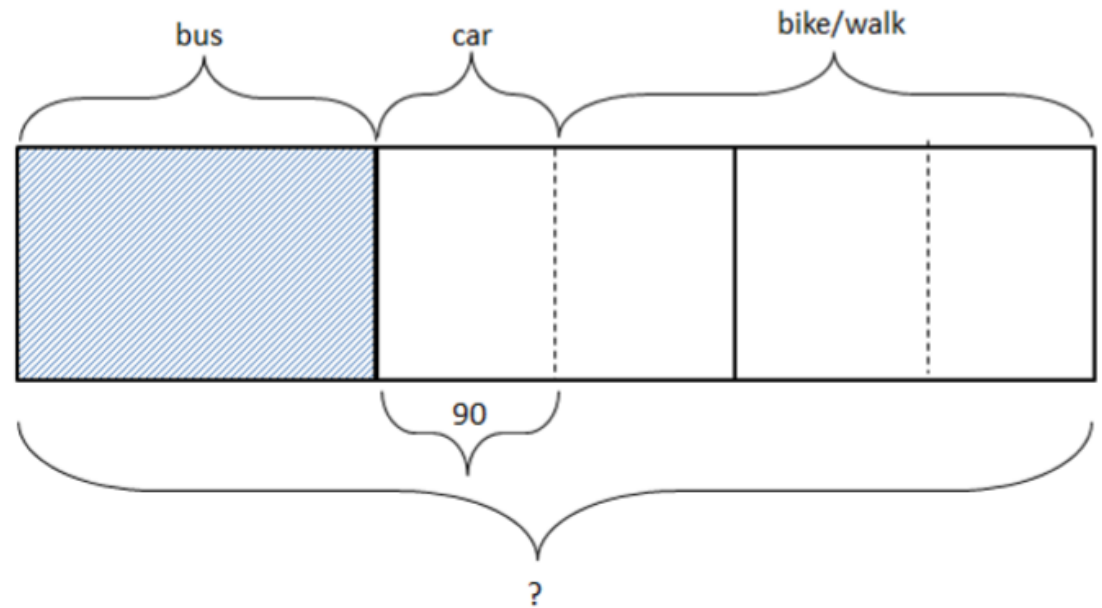
(6.5B)

$$540 \div 2 = 270$$

$$270 + 90 = 360$$

- A. 90 students
 B. 180 students
 C. 270 students
 D. 360 students

$$\begin{array}{r} 540 \\ - 360 \\ \hline 180 \end{array}$$



(6.5C)

9. Which group of numbers are equivalent?

A. $0.07, \frac{7}{100}, 7\%$ $7\% = \frac{7}{100} = 0.07$

B. $6\%, 0.06, \frac{6}{10}$ $6\% = \frac{6}{100}$

C. $\cancel{0.5}, \frac{1}{5}, 20\%$ $0.5 = 50\%$

D. $\frac{8}{100}, 8\%, \cancel{0.8}$ $0.8 = 80\%$

10. Which model shows 60%?

(6.4F)

