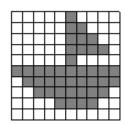
MS "B" MP5 Exam Study Guide

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

Write a ratio and a percent for the shaded area.

__ 1.



a.
$$\frac{41}{100}$$
, 41%

b. $\frac{1}{2}$,50%

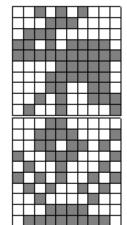
c. $\frac{2}{5}$, 40%

d. $\frac{9}{20}$, 45%

2. Model 45% on a 10 x 10 grid.

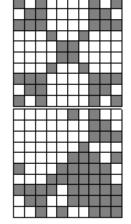
a.

b.



c.

d.



Write the ratio as a percent.

____ 3. In the small country of Varia, a bill becomes law only if $\frac{7}{10}$ of the senators approve it.

a. 90%

b. 60%

c. 55%

d. 70%

Write the decimal as a percent.

4. 8.88

a. 0.0888%

b. 888%

c. 0.888%

d. 88.8%

Write the percent as a decimal.

____ 5. 72.9%

a. 0.729

b. 72.9

c. 7.29

d. 7290

Order from least to greatest.

$$6. 68\%, \frac{1}{2}, 0.55, 1.28$$

a.
$$\frac{1}{2}$$
, 0.55, 68%, 1.28

c.
$$\frac{1}{2}$$
,68%,0.55,1.28

b. 1.28, 68%, 0.55,
$$\frac{1}{2}$$

d. 1.28,
$$\frac{1}{2}$$
, 68%, 0.55

7. In a candy bar, 68 calories are from sugar. There are 100 calories in the candy bar. What percent of the calories are from sugar?

a. 72%

b. 68%

c. 58%

d. 48%

Write the percent as a decimal and as a fraction.

8. 645%

6.45; $6\frac{2}{5}$ b. 64.5; $64\frac{1}{2}$ c. 6.45; $6\frac{9}{20}$ d. 64.5; $64\frac{3}{10}$

9. 0.71%

0.0071; $\frac{71}{10,000}$ b. 0.71; $\frac{71}{100}$ c. 71; $\frac{71}{1,000}$ d. 0.071; $\frac{71}{100,000}$

10. Liam wants to buy a bicycle that costs \$335.00. His parents say Liam must raise 20% of the money himself. How much money must Liam raise?

a. \$65.00

b. \$67.00

\$20.00

d. \$33.50

11. Estimate 11% of 90.

a. 13

b. 9

c. 19

d. 4

Use a proportion to solve. If necessary, round to the nearest percent.

12. What percent of 170 is 153?

a. 111

b. 90

c. 91

d. 153

13. There are 12 players on the basketball roster. 9 of the players are in the 8th grade. What percent of the team is not in the 8th grade?

a. 75%

b. 25%

c. 90%

d. 130%

14. 15 is 375% of what number?

b. 4

d. 56.25

Use an equation to solve.

15. What number is 70% of 420?

a. 300

b. 292

297.5

d. 294

16. What percent of 235 is 47?

c. 500%

d. 500.5%

17. **a.** Out of 48 job applicants, the manager chose 22 to interview. Did more than half of the applicants get an

b. What percent of the applicants got an interview? Round to the nearest whole percent.

	a. no; 45%	b. yes; 48%	c.	yes; 46%	d.	no; 46%	
 18.	The bill is \$76.37. Fir	nd the amount of a 12	2% tip.				
	a. \$15.71	b. \$3.82	c.	\$16.80	d.	\$9.16	
 19.	11 2						
	added, and you want t						n total?
	a. \$12.00	b. \$58.50		\$62.00		\$8.50	
 20.	Find the total weekly				ք \$275 լ	olus a 5% commis	sion on dinners
	if the total worth of th		-		1	¢460.00	
	a. \$475.00	b. \$200.00		\$537.80		\$460.90	
 21.	A music store charges				% state	tax.	
	a. How much will youb. How many more ta	¥ •			nd to th	a nagrast cont	
	a. \$19.33, \$0.74	ix donars does the sta		\$19.30, \$0.65	ia to tii	e nearest cent.	
	b. \$19.33; \$0.65			\$19.33, \$0.09			
22.	Find the percent of di	scount. Round to the		•			
 	original price \$20,165						
	a. 31.8%	b. 23.9%		48.3%	d.	31.5%	
23.	A new piece of furnit	ure in your room wil	l occupy	the shaded space	on the	floor plan below.	Write a ratio of
	the area the furniture	occupies compared t	o the area	a of your room. T	Then wr	ite as a percent.	
	a. 5	b. 1	c.	1	d.	1	
	a. 5/25,30%	b. $\frac{1}{5}$, 20%		$\frac{1}{5}$,25%		$\frac{1}{4}$,25%	
24	Write a ratio and a pe	2	oron	,		7	
 <i>2</i> 4.	write a ratio and a pe	reent for the shaded	arca.				

d. $\frac{1}{10}$; 10

d. \$3.15

c. <u>9</u>; 90%

c. \$2.10

a. 9/10; 9%

25. Estimate a 15% tip for a \$21.14 meal. a. \$24.15 b. \$1.05