MS C/Transition MP4 Exam Study Guide

Multiple Choice

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

1. Write two different ratios equal to 6 : 30.

a.
$$\frac{4}{20}$$
, $\frac{1}{6}$

b.
$$\frac{5}{20}$$
, $\frac{1}{6}$

c.
$$\frac{5}{20}$$
, $\frac{1}{5}$ d. $\frac{4}{20}$, $\frac{1}{5}$

d.
$$\frac{4}{20}$$
, $\frac{1}{5}$

2. Write the ratio 42 : 6 in simplest form.

Find the value that makes the ratios equal.

3. **I** to 24, 8 to 3

$$4. \quad \frac{18}{24} = \frac{6}{?}$$

Find the unit rate for the situation.

5. \$5.20 for 8 cans

a. \$.55 per can

b. \$.60 per can

c. \$.65 per can

d. \$.70 per can

6. The cost of gasoline is \$2.55 per gallon. Write the unit rate as a ratio. Then write an equal ratio to find the cost of 8 gallons.

a.
$$\frac{$2.55}{1 \text{ gallon}} = \frac{$25.50}{8 \text{ gallons}}$$

c.
$$\frac{$2.55}{1 \text{ gallon}} = \frac{$22.95}{8 \text{ gallons}}$$

b.
$$\frac{$2.55}{1 \text{ gallon}} = \frac{$10.55}{8 \text{ gallons}}$$

d.
$$\frac{$2.55}{1 \text{ gallon}} = \frac{$20.40}{8 \text{ gallons}}$$

7. At an average rate of 38 miles an hour, how far can you travel in 4 hours?

Find the value that completes the proportion.

8. $\frac{21}{?} = \frac{9}{15}$

9. Solve the first proportion for x. Use that value to solve the second proportion for y.

$$\frac{x}{24} = \frac{9}{72}, \frac{x}{9} = \frac{y}{12}$$

a.
$$x = 3, y = 4$$

b.
$$x = 4$$
, $y = 3$

b.
$$x = 4, y = 3$$
 c. $x = 27, y = 36$ d. $x = 3, y = 6$

d.
$$x = 3, y = 6$$

_ 10. A car travels 136 miles using 7 gallons of gas. At that rate, how far can the car travel using 42 gallons of gas?

Solve the proportion.

 11.	$\frac{21}{10} = \frac{28}{10}$						
	18 z a. 22	b.	48	c.	44	d.	24
 12.							meters apart on the map, what is
	the actual distance between the cities, to the nearest tenth of a kilometer?						
	a. 41.3 km	b.	29.3 km	c.	4.1 km	d.	293.3 km
	Write the percent as a	deo	cimal.				
 13.	4%						
	a. 0.004	b.	4	c.	0.04	d.	0.4
	Write the decimal or fraction as a percent.						
1.4	2						
 14.	-						
	a. 200%	b.	400%	c.	20%	d.	40%
 15.	2 30						
	a. 0.06%	b.	0.005%	c.	0. 6%	d.	0.05%
	Use a calculator, paper and pencil, or mental math to write the decimal or fraction as a percent. Round to the nearest percent.						
16.	$0.\overline{1}$						
 10.	a. 11%	b.	110%	c.	10%	d.	1%
17	A baseball player got a	hit '	3 out of every 10 tir	nac l	na was at hat Write	3	as a parcent
 17.						10	
	a. $\frac{3}{10}$ %	b.	0.3%	c.	3%	d.	30%
 18.	Use a proportion to find 60% of 38.						
	a. 228		2.28		0.98		22.8
 19.	There were 12 students on a field trip. While outside, 25% of the students wore jackets. How many students wore jackets?						
	a. 4 students	b.	6 students	c.	3 students	d.	5 students
 20.	Of the 380 students at Central Middle School, 25% are on the honor roll. How many students are on the honor roll?						
21	a. 95 students		105 students		85 students		100 students
 21.	a. \$70		\$60 saved 30% o		\$65 s money. Use menta		th to find how much he saved. \$75
	Estimate the sale price of the item.						
	60% off a pair of shoes	for	\$51.95				
22.	00 /0 Off a pair of shoes						
22.	a. \$40		\$30	c.	\$20	d.	\$26
	_	b.			\$20 47	d.	

24. Estimate a 15% for a \$26.40 restaurant bill.

a. \$1.50

b. \$4.00

c. \$6.00

d. \$8.00

25. Write 63% as a fraction in simplest form.

a. $\frac{63}{100}$

b. $\frac{63}{10}$

c. $\frac{100}{63}$

d. $\frac{10}{63}$