## CHAPTER 5:

- 1. Is the underlined item an ordinal or a cardinal number? "Jack placed second in the competition."
  - a) cardinal
- b) ordinal
- c) composite
- d) irrational

- 2. Write 1470 as a product of primes.
  - a)  $2 \times 3 \times 5^2 \times 7$  b)  $2 \times 3 \times 5 \times 7^2$  c)  $2 \times 3^2 \times 5 \times 7$  d)  $3^2 \times 5 \times 7^2$

- 3. State which number is divisible by 3: 863, 43512, 4301, 95.
  - a) 4301
- b) 863
- c) 43512
- d) 95

- Find the GCF of 150, and 480.
  - a) 2400
- b) 75
- c) 60
- d) 30

- 5. Find the LCM of 72, and 120.
  - a) 360
- b) 24
- c) 240
- d) 96
- 6. A father left  $\frac{3}{10}$  of his estate to his son,  $\frac{3}{5}$  to his wife, and  $\frac{1}{20}$  to his church. The rest
  - he gave to his daughter. What fraction was left for his daughter?
    - a)  $\frac{1}{20}$
- b)  $\frac{1}{10}$
- c)  $\frac{9}{10}$
- d)  $\frac{19}{20}$

- 7. Evaluate:  $3 \times 12 \div 4 \times 10^4 3(-6 + 4) \times 10^3$ 
  - a) 1,500
- b) 15,000
- c) 9,600
- d) 96,000

- 8. Find the reciprocal of:  $-2\frac{1}{2}$ 
  - a)  $-2\frac{1}{2}$  b)  $-\frac{2}{5}$
- c)  $2\frac{1}{2}$

9. Multiply: 
$$\frac{7}{9} \times -\frac{3}{15}$$

- a)  $\frac{7}{45}$
- b)  $\frac{7}{18}$  c)  $-\frac{7}{45}$
- d)  $-\frac{7}{18}$

10. Calculate and write in scientific notation: 
$$(5 \times 10^3) \times (9 \times 10^{-7})$$

- a) 45×10<sup>-21</sup>
- b)  $4.5 \times 10^{-21}$  e)  $4.5 \times 10^{-3}$
- d)  $45 \times 10^{-4}$

- a) 27.11 cm
- b) 29.01 cm
- c) 27.01 cm
- d) 29.11 cm

- a) 486.692 sq. ft.
- b) 4866.92 sq. ft.
- c) 496.692 sq. ft
- d) 4966.92 sq. ft.

13. Write as a decimal: 
$$\frac{5}{8}$$

- a) 0.625
- b) 0.0625
- c) 6.25
- d) 0.375

14. Write as a quotient of two integers: 
$$0.3\overline{5}$$

- a)  $\frac{16}{45}$
- b)  $\frac{7}{20}$
- c)  $\frac{9}{20}$
- d)  $\frac{3}{10}$

- a) 57.4
- b) 0.0574
- c) 0.574
- d) 574

- a) 0.83%
- b) 8.3%
- c) 830%
- d) 83%

Name			7%
17. Write as a percent: $\frac{3}{5}$			
a) 30%	b) 6%	c) 60%	d) 0.6%
18. A shoe sells for \$40.00	and costs the store \$25.00. F	ind the percent of profit o	n the cost.
a) 6%	b) 60%	c) 0.6%	d) 37.5%
19. Simplify: √80			
a) 4√5	b) 5√4	c) 16√5	d) 8√10
20. Simplify: $\frac{2}{\sqrt{20}}$			
a) $\frac{1}{5}$	b) $\frac{\sqrt{5}}{5}$	c) $\frac{1}{\sqrt{10}}$	d) $\frac{\sqrt{10}}{10}$
21. Multiply and simplify:	$\sqrt{5} \times \sqrt{12}$		
a) 4√15	b) 15√2	e) 2√15	d) 60
22. Simplify: $\sqrt{50} + \sqrt{32} - \sqrt{31}$	√18		
a) 12√4	b) $6\sqrt{2}$	e) 12√2	d) 12√6
23. Identify the type of seq	uence: 3, 7, 11, 15,		
a) binomial	b) exponential	c) geometric	d) arithmetic
24. Find the sum of the firs	t ten terms: 3, 7, 11, 15,		
a) 210	b) 420	c) 39	d) 189
25. The first term of a geon	netric sequence is $\frac{1}{2}$ and $r =$	$\frac{1}{3}$ . Find the fifth term of	the sequence.
a) $\frac{1}{162}$	b) $\frac{1}{14}$	c) $\frac{1}{54}$	d) $\frac{1}{48}$

## CHAPTER 6

- 1. Solve the equation: x + 6 = 11
  - a) 17

- b) 17
- c) 5

d) -5

- 2. Find the integer solution:  $3 + x \le -x + 9$ 
  - a) {4, 5, 6, ...} b) {3, 4, 5, ...} c) {...,0, 1, 2}
- d) {..., 1, 2, 3}

- 3. Solve: 3x + 5 = 4x 2
  - a) x = -7 b) x = 7
- c) x = 5
- d) x = -5

- 4. Solve:  $\frac{x+7}{6} + \frac{2x-8}{2} = -4$ 
  - a) x = 1
- b) x = -1
- c) x = 4
- d) x = -4

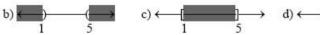
- 5. Solve for L: P = 2L + 2W

  - a)  $\frac{P-2W}{2}$  b)  $\frac{P+2W}{2}$  c)  $\frac{P-2L}{2}$  d)  $\frac{P+2L}{2}$

- 6. Solve:  $\frac{-2(r-3)}{3} \frac{1}{2} < \frac{(5-r)}{2}$ 
  - a) r < -6 b) r > -6
- c) r < -3 d) r > -3
- 7. Graph the solution set to  $x + 3 \ge 4$  and  $x \le 5$



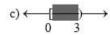




8. Graph the solution set to  $x \ge 0$  or x + 2 > 5







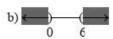


- 9. Solve: |x| = 6
  - a) 6, 6
- b) 6
- c) 6

d) no solution

10. Graph the solution set of |x-3| < 3

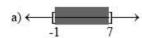




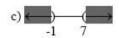


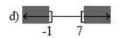


11. Graph the solution set of  $|x-3| \ge 4$ 









12. Factor:  $x^2 + 5x + 6$ 

a) 
$$(x-1)(x-6)$$

b) 
$$(x-2)(x-3)$$
 c)  $(x+2)(x+3)$  d)  $(x+1)(x+6)$ 

c) 
$$(x+2)(x+3)$$

d) 
$$(x+1)(x+6)$$

13. Solve: (x-4)(x+5) = 0

a) 
$$-4, 5$$

c) 
$$-4$$
,  $-5$ 

14. Solve by factoring:  $x^2 + 3x - 10 = 0$ 

a) 
$$-3$$
, 10

$$b) -10, 3$$

c) 
$$-2, 5$$

$$d) -5, 2$$

15. Solve by factoring:  $x^2 - x = 12$ 

a) 
$$-3, 4$$

$$b) - 4, 3$$

c) 
$$-2, 6$$

$$d) - 6, 2$$

16. Solve:  $4x^2 - 9 = 0$ 

a) 
$$-\frac{4}{9}$$
,  $\frac{4}{9}$ 

b) 
$$-\frac{9}{4}, \frac{9}{4}$$

a) 
$$-\frac{4}{9}, \frac{4}{9}$$
 b)  $-\frac{9}{4}, \frac{9}{4}$  c)  $-\frac{2}{3}, \frac{2}{3}$  d)  $-\frac{3}{2}, \frac{3}{2}$ 

d) 
$$-\frac{3}{2}$$
,  $\frac{3}{2}$ 

17. Solve by quadratic formula:  $2x^2 + 5x - 3 = 0$ 

c) 
$$\frac{1}{3}$$
, -2 d)  $\frac{1}{2}$ , -3

d) 
$$\frac{1}{2}$$
,  $-3$ 

18. Solve by quadratic formula:  $2x^2 + 4x = -1$ 

a) 
$$\frac{-2 \pm \sqrt{2}}{2}$$

a) 
$$\frac{-2 \pm \sqrt{2}}{2}$$
 b)  $\frac{-2 \pm 4\sqrt{2}}{2}$  c)  $\frac{-2 \pm \sqrt{2}}{4}$  d)  $\frac{-4 \pm \sqrt{2}}{2}$ 

c) 
$$\frac{-2 \pm \sqrt{2}}{4}$$

d) 
$$\frac{-4 \pm \sqrt{2}}{2}$$

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	t triangle is 4 cm longer than dimensions of the triangle.	the shortest side and 2 cr	m longer than the
a) 9, 7, 5	b) 10, 8, 6	c) 11, 9, 7	d) 12, 10, 8
20. Suppose you rent a car fo could you drive for a ren	or 2 days at a rate of \$25.00 ptal charge of \$90.00?	per day, plus \$0.20 per mi	ile. How many mile
a) 100 miles	b) 150 miles	c) 200 miles	d) 300 miles
21. Three times the sum of t	wo consecutive integers is 75	. Find the integers.	
a) 33, 42	ь) 10, 15	c) 12, 13	d) 37, 38
	Z Stock Exchange reported the Mark is the ratio of losers		
a) 4:1	b) 1:4	c) 5:1	d) 1:5
23. A supermarket is selling 12-ounce box. What is t	a certain kind of cracker for he better buy?	\$0.98 for a 10-ounce box	and \$1.20 for a
a) both are bad	b) both are good	c) 12-oz box	d) 10-oz box
	of similar triangles are in proides of the bigger triangle ar		
a) $7\frac{1}{2}$ inches	b) $12\frac{1}{2}$ inches	c) 6 inches	d) 10 inches
	s from rest is directly propor seconds, how far will it fall in		time it falls. If an
a) 576 feet	b) 192 feet	c) 48 feet	d) 16 feet

## QUIZ 3 MA125 ANSWER SHEET

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