

Name \_\_\_\_\_

Score \_\_\_\_\_

**Cumulative Test 4A**

Math Course 3  
Also take Power-Up Test 4

1. Jewel brought home four gallons of milk. How many quarts is four gallons?

6. What is the perimeter of a rectangle with vertices at (3, 2), (-2, 2), (-2, -2), and (3, -2)?

2. One pack of trading cards sells for \$1.50. How many complete packs can Jordan buy for \$10.00?

7. What is the area of the rectangle in question 6?

3. Shawna ran 3 miles in 24 minutes. What was her average rate in minutes per mile?

8. Gina measured the heights of the corn sprouts in her garden. 18 cm, 16 cm, 19 cm, 18 cm, 15 cm, 19 cm, 18 cm, 17 cm. What is the mode of the measures?

4. If Robert reads 2 pages per minute, how many pages could he read in  $1\frac{1}{2}$  hours?

9. Estimate the sum of 6.27 and 4.91 by first rounding each number to the nearest whole number.

5. List the prime numbers between 10 and 20.

10. Hector slept for eight hours. Eight hours is what fraction of a day?

11. Write a fraction equivalent to  $\frac{3}{5}$  that has a denominator of 100?

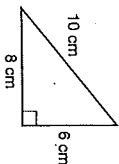
12. The sales tax rate is 8%. Find 8% of \$27.50.

13. A quadrilateral has how many sides?

14. Which of the following numbers is irrational?

- A. 0
- B.  $\frac{3}{7}$
- C. -10
- D.  $\sqrt{2}$

15. What is the area of this triangle?



16. An angle that measures  $45^\circ$  is what type of angle?

- A. acute
- B. right
- C. obtuse
- D. straight

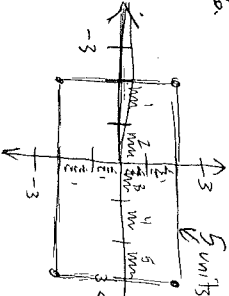
17. Solve by inspection:  $3x - 1 = 20$

18. Write in exponential form:  $3xyxyxyx$

For questions 19 and 20, simplify the expression.

19.  $4^2 - \sqrt{64}$

20.  $\frac{5}{6} - \frac{1}{4}$

<p>1. 4 gallons = <u>16</u> quarts? 4 quarts = 1 gallon <math>4 \times 4 = 16</math> quarts</p>	<p>6.  <math>5 + 4 + 5 + 4 = 18</math> units</p>
<p>2. <math>10 \div 1.50 = 6.\overline{66}</math> packs He can buy <u>6</u> full packs. 13 impossible</p>	<p>7. <math>A = L \cdot W</math> <math>A = 5 \cdot 4 = 20</math> units<sup>2</sup></p>
<p>3. 3 miles in 24 minutes ? minutes per mile <math>24 \div 3 = 8</math> minutes per mile</p>	<p>8. 8, 16, 19, 18, 15, 19, 17 mode = # that occurs the most <u>18</u> cm</p>
<p>4. 2 pages per minute = _____ pages in <math>1\frac{1}{2}</math> hrs <math>1\frac{1}{2}</math> hrs = 60 + 30 = 90 minutes <math>2 \times 90 = 180</math> pages</p>	<p>9. 6.27 estimate <math>+4.91</math> <u>11</u></p>
<p>5. 11, 13, 17, 19</p>	<p>10. 8 hrs out of 24 hrs <math>\frac{8}{24} \div 8 = \frac{1}{3}</math></p>
<p>11. <math>\frac{3}{5} = \frac{??}{100}</math> <math>100 \div 5 = 20</math> <math>\frac{3 \times 20}{5 \times 20} = \frac{60}{100}</math></p>	<p>16. <math>45^\circ</math> A. Acute -- less than 90 B. right -- 90 C. obtuse -- 90-180 D. straight -- 180</p>
<p>12. 8% of \$27.50 <math>\frac{8}{100}</math> of \$27.50 Divide <math>27.50 \div 100 = .275</math> <math>.275 \times 8 = 2.20</math></p>	<p>17. <math>3x - 1 = 20</math> <math>21 - 1 = 20</math> <math>3(7) = 21</math> <u>X = 7</u></p>
<p>13. Quad = <u>4</u> sides</p>	<p>18. <math>3xy - xy - xy = 3x^4y^3</math></p>
<p>14. Irrational = Decimal that never stops &amp; never repeats. A. 0 --- not decimal B. <math>3\overline{4}</math> --- repeats C. <math>\frac{10}{12}</math> --- not decimal D. <math>\sqrt{2}</math> --- Yes! <u>D</u></p>	<p>19. <math>4^2 - \sqrt{64}</math> <math>16 - 8 = 8</math> <u>8</u></p>
<p>15. <math>A = (b \cdot h) \div 2</math> <math>A = (8 \cdot 6) \div 2 = 24</math> cm.<sup>2</sup></p>	<p>20. <math>\frac{5}{6} \times \frac{2}{3} = \frac{10}{12}</math> <math>\frac{1}{4} \times \frac{3}{12} = \frac{3}{48}</math> <math>\frac{10}{12} - \frac{3}{48} = \frac{20}{24} - \frac{3}{48} = \frac{40}{48} - \frac{3}{48} = \frac{37}{48}</math> <u><math>\frac{7}{12}</math></u></p>