- 1. Draw a factor tree for 630 and then write the prime factorization of 630.
- 2. Which of these numbers has both (9) 3 and 5 as factors?
- **A.** 543
- **B.** 350
- C. 405
- **D.** 925
- 3. A rectangular room is 15 feet long and 12 feet wide. What is its area?
- 4. Albert will fence a rectangular plot of land 200 feet long by 150 feet plot of land? wide. What is the perimeter of the
- **5.** The movie is 204 minutes long. <sup>(8)</sup> How many hours and minutes is 204 minutes?

6. A half gallon of orange juice can (1 gallon = 4 qt, 1 qt = 2 pt,fill how many 8 ounce glasses?

1 pt = 16 oz

- 7. The daily high temperatures for temperature for the week? below. What was the mean high each day of the week are shown 78°F, 82°F, 84°F, 85°F, 85°F, 83°F, 84°F
- 8. Find the median temperature of the data in question 7.
- 9. Use prime factorization to reduce  $\frac{45}{210}$ .
- 10. What number completes the equivalent fraction?

5 = 75

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11. Arrange these seven numbers from seast to greatest.  $0, \frac{1}{2}, \frac{2}{5}, \frac{2}{3}, \frac{4}{3}, 1, -1$ 

**16.** Use the associative and commutative π properties to make the calculation

lest 2A

easier. Justify the steps. 4 (23 · 25)

**12.** Compare: [-6] ○ [6]

For questions 17-20, simplify the

expression.

17. \$50 ÷ 8

13. Which two numbers on the number  $^{\prime\prime}$  line are seven units from zero?

**18.** 24 × \$8.75

14. Which of the following correctly that apply. describe -3? Choose all answers

A. counting number

B. whole number

C. integer

D. rational number

15. The product of 12 and 8 is how 12 and 8? much greater than the sum of

**19.**  $\frac{1}{4}$  of \$25.00

**20.**  $\frac{2}{3}$  of 144

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50, \[ \frac{200}{200},  \text{P} = \text{Add all sides} \\ \text{700},  \text{P} = \text{180+200} + \\ \text{180+200} + \\ \text{180+200} + \\ \text{180+200} - \text{60} - \text{1hr}  \text{2hrs.} \\ \text{-60} - \text{1hr}  \text{2hrs.} \\ \text{-60} - \text{1hr}  \text{3hrs.} \\ \text{-60} - \text{1hr}  \text{-60} - \text{3hrs.} \\ \text{-60} - \text{3hrs.}  \text{-60} - \text{3hrs.} \\ \text{-60} - \text{-60} - \text{3hrs.}  \text{-60} - \text{3hrs.} \\ \text{-60} - \text{3hrs.}  \	$\frac{180 \text{ ft}^2}{\text{X12}}$ Area = LxW	A. 543 X docont B. 350 X not with 3 C. 405 405 405 = 3= 135 D. 925 X not with 3	630 6300 6300 6300 6300 6300 6300 6300	NAME: Pre-Algebra Study Guide
9. 45 = 8.3.8 = 3 20 2038 8-7 = 3 10. 2038 8-7 = 3 5 75 5 75 5 75 5 75 5 75 5 75 5 75 5 7	8. median = Of t in order Of Find middle #  78 82 83 84 84 85 85  X x x x x x 84 84 85 85	185 = h8+ 88+ 184 = h8+ 88+ 54# to +unounp	6. \frac{1}{2} gallon = 2 quarts 2 quarts = 4 pints 4 pints x lb oz = 64 0=.	TEST: 2
15. () D	T 7 -7	1-6 (=) 6 Phony Room 2200?	$\frac{1}{2} = 0.5$ $\frac{1}{2} = 0.4$ $\frac{1}{5} = 0.6$ $\frac{1}{3} = 0.6$	
mult 4 of 25  25:4=6.25  6.25 x 1 = 6.25  6.25 x 2 = 6.25  144 = 3 = 48  144 = 3 = 48  148 x 2 = 96	18. 38,75 x 24 175.00 21. 0.00	8/50,00 (\$6,25)	16. 4. (23.25) 25.(4.23) Comm. Prop (25.4). 23 Assuc Prop (00.23 = (2300)	