

Proficiency Practice

Number Sense

1. A summer camp has 192 participants. If 12 campers sleep in a cabin and each cabin is assigned 2 counselors, how many counselors are needed for the summer camp?

a) 8 b) 16 c) 24 d) 32

2. There are 462 students enrolled in Median Middle School. One school day the attendance was as follows: sixth grade, 137 students; seventh grade, 153 students; eighth grade, 149 students. How many students were absent on that day?

a) 21 b) 23 c) 27 d) 33

3. From a six foot board, Mario cuts off a piece $1\frac{1}{2}$ ft long. From what is left, he wants to cut four equal pieces. How long is each piece?

a) 1 ft b) $1\frac{1}{8}$ ft c) $1\frac{1}{4}$ ft d) 2 ft

4. Find the sum: $4.2 + 0.13 + 0.072$

a) 4.402 b) 5.002 c) 6.22 d) 44.02

5. Which of the following is closest in value to $8 \times \$31.10$?

a) \$240 b) \$830 c) \$1600 d) \$2400

6. A chicken lays an egg every other day for two months. About how many dozen eggs is this?

a) less than 3 b) a little more than 3
c) between 5 and 6 d) more than 6

7. Which is true?

a) $\frac{1}{10} = 0.01$ b) $\frac{1}{10} > 0.1$
c) $1\% = 0.1$ d) $0.1 \geq \frac{1}{10}$

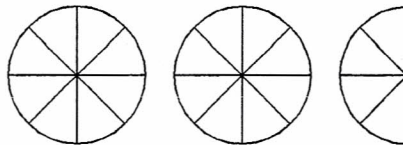
8. Which number is a common factor of 10 and 15?

a) 5 b) 10 c) 30 d) 150

9. Which of the following numbers is divisible by 2, 3, 5, and 9

a) 75 b) 90 c) 115 d) 230

10. Bill had $2\frac{1}{2}$ pies that he wanted to divide equally among 4 people. What fraction of a whole pie would each person receive?



a) $\frac{5}{8}$ b) $2\frac{1}{8}$ c) 3 d) 10

11. A person lost in an office building travels up 3 floors in an elevator, then down 1 floor, then up 5 more floors, then down another 4 floors. What number sentence would represent this situation?

a) $-3 + 1 + 5 + -4$ b) $+3 - 1 - 5 - 4$
c) $+3 + -1 + 5 + -1$ d) $+3 + -1 + 5 + -4$

12. If 4 tennis balls cost \$3.96, which equation shows how much 8 tennis balls will cost?

a) $\frac{4}{396} = \frac{n}{8}$ b) $\frac{396}{8} = \frac{4}{n}$
c) $\frac{4}{396} = \frac{8}{n}$ d) $\frac{396}{4} = \frac{8}{n}$

13. There were 200 baseball cards in a box. Adam wanted to sell 15 percent of them. How many cards did he want to sell?

a) 15 b) 30 c) 60 d) 85

14. Use $A = lw$ to find the area (A) of a rectangle when the length is 5 m and the width is 3 m.

a) 225 m^2 b) 15 m^2 c) 8 m^2 d) 2 m^2

15. Use $A = lw$ to find the length (l) of a rectangle when the area is 150 m^2 and the width is 6 m.

a) 144 m b) 75 m c) 50 m d) 25 m

16. Simplify: $|-6 - (-2)|$

a) 8 b) 4 c) -4 d) -8

17. Simplify: $(-3)^3$

a) -27 b) -9 c) 9 d) 27

18. Between which two integers does $\sqrt{72}$ lie?
- a) 6 and 7 b) 7 and 8
c) 8 and 9 d) 9 and 10
19. Nina is now four times as old as Rachel. In 10 years, Nina will be twice as old as Rachel is then. How old is Nina now?
- a) 5 years b) 10 years
c) 16 years d) 20 years
20. Solve: $2x + 7 = 3$
- a) 5 b) 2 c) -2 d) -5

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Proficiency Practice Number Sense 10/6/2005

Answer List

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|-------|-------|-------|
| 1. d | 2. b | 3. b |
| 4. a | 5. a | 6. a |
| 7. d | 8. a | 9. b |
| 10. a | 11. d | 12. c |
| 13. b | 14. b | 15. d |
| 16. b | 17. a | 18. c |
| 19. d | 20. c | |

Catalog List

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|----------------|---------------|---------------|
| 1. OH1 AA 20 | 2. OH1 AA 34 | 3. |
| 4. OH1 AA 117 | 5. OH1 AA 114 | 6. OH1 AA 150 |
| 7. OH1 AB 9 | 8. NC5 AA 31 | 9. NC5 AA 33 |
| 10. NC5 AG 46 | 11. NC5 AG 77 | 12. NC5 AG 84 |
| 13. NC5 AG 100 | 14. NC5 DA 17 | 15. |
| 16. NC5 DB 21 | 17. NC5 DB 24 | 18. NC5 DB 43 |
| 19. NC5 DC 83 | 20. NC5 DC 38 | |