# Math Level F

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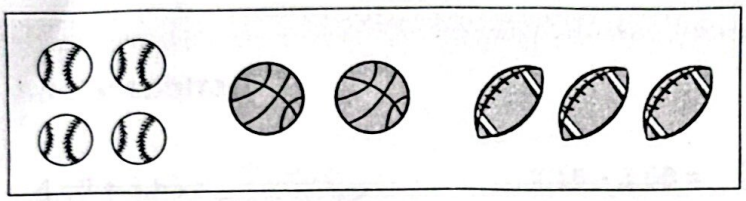
**Note to Instructors:** Please inform students not to guess on any questions. If there is more than one problem in a question, all problems in the question must be answered correctly to qualify as a correct answer.

1. Write the ratio.



Baseballs : Footballs _____ : _____ Basketballs : All balls _____ : _____

2. Find the value of the unknown number.

$4 : 12 = x : 15$ $x =$ _____

3. Jackie has driven 195 miles in 3 hours. What was the rate of her speed per hour?

_____

4. Compare the unit price with >, <, or =.

$27 for 2 movie tickets ◯ $65 for 5 movie tickets

5. Write the percent.

$\frac{3}{5}$ = _____% .43 = _____%

6. Divide. Write the remainder if any.

$42\overline{)2738}$ $= 65\frac{6}{42} = 65\frac{1}{7}$

252

218

212

6

$193\overline{)8612}$

1544

7148

7. Add or subtract.

4.69 + 3.85 = 8.54

7.15 − 3.68 = 3.47

8. Multiply.

3.45 × 4.6 = 15.870

6.05 × .4 = 2.420

9. Divide.

1.19 ÷ 1.4 = 1.666

7.02 ÷ 6.5 = 1.080

10. Find the prime factors of 42.

____ ____ ____

11. Find the GCF of 60 and 36.

12. Find the GCF of 3 numbers 32, 48, and 80.

7 8 12

13. Find the LCM of 3 numbers 7, 8, and 12.

14. Multiply. Simplify if possible.

$\frac{4}{1} \times \frac{2}{7} = \frac{8}{7} = 1\frac{1}{7}$

$\frac{5}{8} \times \frac{8}{1} = \frac{5}{2} = 2\frac{1}{2}$

15. Multiply. Simplify if possible.

$\frac{3}{4} \times \frac{4}{5} = \frac{3}{5}$

$\frac{5}{8} \times \frac{4}{10} = \frac{1}{2}$

16. Divide. Simplify if possible.

$\frac{3}{7} \div \frac{1}{4} = \frac{3}{28}$

$\frac{6}{1} \div \frac{3}{4} = 6$

$\frac{6}{1} \times \frac{4}{3} = \frac{6}{1}$

17. Fill in the blanks.

$4 \div \frac{2}{3} = \frac{4}{1} \times \frac{3}{2} = 6$

$\frac{4}{1} \times \frac{3}{2}$

18. Divide. Simplify if possible.

$\frac{4}{5} \div \frac{2}{5} =$ 2

$\frac{4}{5} \times \frac{5}{2} =$

19. Write the integer for the phrase.

18 feet below sea level -18

A loss of 7 pounds -7

$-3+4$

$+1$

$-3+(-4)$

$-3-4$

20. Compare the numbers with >, <, or =.

-7 < -4

21. Add.

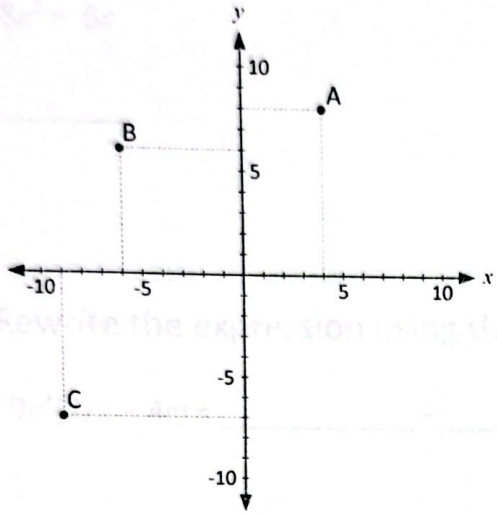
$3 + (-4) =$ -7


22. Write the absolute value.

$\left|-\frac{3}{7}\right| = \frac{3}{7}$

$|-9| =$ 9

23. Write the ordered pairs for the points.




A = ( 4 , 8 )

B = ( -6 , 6 ) ✓

C = ( -9 , -7 ) ✓

24. Write the decimal numbers as fractions and percent.

.31 = _____ = _____% .07 = _____ = _____%

25. Subtract.

2 – (-5) = _____

26. Evaluate.

7 – 3 × 5 = 20 (5 × 6 ÷ 12) × 4 ÷ 5 = _____

27. Write the algebraic expression for the phrase.

12 times $m$ to the fourth power times $n$ cubed

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