



1)  $5^{7/9} \times 1^{4/10}$

Answer: \_\_\_\_\_

2)  $3^{7/10} \times 2^{1/4}$

Answer: \_\_\_\_\_

3)  $3 - 11 \times 2 \div 3$

Answer: \_\_\_\_\_

4)  $2^2 \times 14 \div 3$

Answer: \_\_\_\_\_

5) Find the value of 'f' by completing the square of the following equation:  $2x^2 + 6x + 8$

Answer: \_\_\_\_\_

6) \$210.00 earning 8.5% compound interest for 3 years.

Answer: \_\_\_\_\_

7)  $36 \div 18$

Answer: \_\_\_\_\_

8)  $108 \div 12$

Answer: \_\_\_\_\_

9) \$194.00 earning 4% compound interest for 2 years.

Answer: \_\_\_\_\_

10)  $42 \div 7$

Answer: \_\_\_\_\_

11) Simplify 15:10

Answer: \_\_\_\_\_

12)  $2 + 20 \times 10$

Answer: \_\_\_\_\_

13) \$135.00 earning 9% compound interest for 4 years.

Answer: \_\_\_\_\_

14)  $1^{1/5} \times 2^{1/2}$

Answer: \_\_\_\_\_

15)  $216 \div 18$

Answer: \_\_\_\_\_

Name: \_\_\_\_\_

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16)  $4\frac{6}{10} \times 5\frac{1}{2}$

Answer: \_\_\_\_\_

17) \$493.00 earning 4% compound interest for 9 years.

Answer: \_\_\_\_\_

18) Find the value of 'f' by completing the square of the following equation:  
 $x^2 + 8x + 15$

Answer: \_\_\_\_\_

19) \$103.00 earning 3.6% compound interest for 9 years.

Answer: \_\_\_\_\_

20) Find the value of 'f' by completing the square of the following equation:  
 $x^2 + 8x + 15$

Answer: \_\_\_\_\_

**Total: \_\_\_\_ / 20**

Name: \_\_\_\_\_

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## Answers:

- |                    |                      |              |                     |                    |                     |       |
|--------------------|----------------------|--------------|---------------------|--------------------|---------------------|-------|
| 1) $8\frac{4}{45}$ | 2) $8\frac{13}{40}$  | 3)           | 4)                  | 5) $(f + 3)^2 - 1$ | 6) \$268.23         | 7) 2  |
| 8) 9               | 9) \$209.83          | 10) 6        | 11) $3 : 2$         | 12)                | 13) \$190.56        | 14) 3 |
| 15) 12             | 16) $25\frac{3}{10}$ | 17) \$701.69 | 18) $(f + 4)^2 - 1$ | 19) \$141.60       | 20) $(f + 4)^2 - 1$ |       |