The Order of Operations Assignment

Find the value of each numerical expression. Follow the order of operations when finding each value.

1. $25 - 15 + 10 - 11 =$ **2.** $12 \div 4 * 10 \div 15 =$ **3.** $124 * 3 * 10 + 15 =$

4. $225 \div 5 + 10 =$ **5.** $196 \div 14 + 8 * 11 =$ **6.** $140 - 12 + 49 \div 7 =$

7. $324 \div 9 - 15 \div 3 =$ **8.** $19 + 144 \div 2 \div 18 =$ **9.** $900 - 12 * 4 \div 6 =$

10. $72 + 8^2 \div 16 + 12 =$ **11.** $14^2 * 8 - 25^2 \div 25 =$

12. $120 \div 2^2 * 7^2 - 320 \div 80 =$ **13.** $520 + 12^2 \div 4^2 - 230 =$

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14. $400 \div 2^3 - 4^2 - 26^2 \div 13 =$

15. $54 * 10^3 - 14^2 - 338 \div 13 =$

Find the value of each numerical expression. Follow the order of operations when finding each value.

16. $400 - (45 * 2) - (32 - 4) =$

17. $300 \div (60 \div 2 - 10 - 75 \div 15)$

18. $(100 \div 4 - 5) - 72 \div 9 =$

19. $(210 \div 7 + 5) - (144 \div 6 - 1) =$

20. $9^2 - (45 - 6^2) + (32 \div 4) =$

21. $254 + (9^2 - 6^2 * 2)^2 =$

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22. $(15^2 \div 25 - 5) * (72 \div 3^2) + 65 =$ **23.** $[(32 \div 2^3) + 4 * 2]^2 - (14 \div 7 - 1) =$

Solve the following problems.

24.   Mark has $1,000. He spends $910 on shopping. Later he divides all the money into three parts out of which two parts were distributed and one part he keeps for himself. Then he found $100 on the road. Write the final expression and find the money he has left?

25.   Annabel had $50 and withdrew $800 from his bank account. She bought a bag for $45.00, 2 shirts for $150.00 each, and 2 pairs of shoes for $199.00 each. Give the final expression, and determine how much money Annabel had at the end of the shopping day.

The Order of Operations Assignment

Find the value of each numerical expression. Follow the order of operations when finding each value.

1. $25 - 15 + 10 - 11 =$

$25 - 15 + 10 - 11 =$
$= 10 + 10 - 11 =$
$= 20 - 11 =$
$= \mathbf{9}$

2. $12 \div 4 * 10 \div 15 =$

$12 \div 4 * 10 \div 15 =$
$= 3 * 10 \div 15 =$
$= 30 \div 15 =$
$= \mathbf{2}$

3. $124 * 3 * 10 + 15 =$

$124 * 3 * 10 + 15 =$
$= 372 * 10 + 15 =$
$= 3,720 + 15 =$
$= \mathbf{3,735}$

4. $225 \div 5 + 10 =$

$225 \div 5 + 10 =$
$= 45 + 10 =$
$= \mathbf{55}$

5. $196 \div 14 + 8 * 11 =$

$196 \div 14 + 8 * 11 =$
$= 14 + 88 =$
$= \mathbf{102}$

6. $140 - 12 + 49 \div 7 =$

$140 - 12 + 49 \div 7 =$
$= 140 - 12 + 7 =$
$= 128 + 7 =$
$= \mathbf{135}$

7. $324 \div 9 - 15 \div 3 =$

$324 \div 9 - 15 \div 3 =$
$= 36 - 5 =$
$= \mathbf{31}$

8. $19 + 144 \div 2 \div 18 =$

$19 + 144 \div 2 \div 18 =$
$= 19 + 72 \div 18 =$
$= 19 + 4 =$
$= \mathbf{23}$

9. $900 - 12 * 4 \div 6 =$

$900 - 12 * 4 \div 6 =$
$= 900 - 48 \div 6 =$
$= 900 - 8 =$
$= \mathbf{892}$

10. $72 + 8^2 \div 16 + 12 =$

$72 + 8^2 \div 16 + 12 =$
$= 72 + 64 \div 16 + 12 =$
$= 72 + 4 + 12 =$
$= 76 + 12 =$
$= \mathbf{88}$

11. $14^2 * 8 - 25^2 \div 25 =$

$14^2 * 8 - 25^2 \div 25 =$
$= 196 * 8 - 625 \div 25 =$
$= 1,568 - 25 =$
$= \mathbf{1,543}$

12. $120 \div 2^2 * 7^2 - 320 \div 80 =$

$120 \div 2^2 * 7^2 - 320 \div 80 =$
$= 120 \div 4 * 49 - 320 \div 80 =$
$= 30 * 49 - 320 \div 80 =$
$= 1,470 - 4 =$
$= \mathbf{1,466}$

13. $520 + 12^2 \div 4^2 - 230 =$

$520 + 12^2 \div 4^2 - 230 =$
$= 520 + 144 \div 16 - 230 =$
$= 520 + 9 - 230 =$
$= 529 - 230 =$
$= \mathbf{299}$

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14. $400 \div 2^3 - 4^2 - 26^2 \div 13 =$

$400 \div 2^3 - 4^2 + 26^2 \div 13 =$
$= 400 \div 8 - 16 + 676 \div 13 =$
$= 50 - 16 + 52 =$
$= 34 + 52 =$
$= \mathbf{86}$

15. $54 * 10^3 - 14^2 - 338 \div 13 =$

$54 * 10^3 - 14^2 - 338 \div 13 =$
$= 54 * 1,000 - 196 - 338 \div 13 =$
$= 54,000 - 196 - 26 =$
$= 53,804 - 26 =$
$= \mathbf{53,778}$

Find the value of each numerical expression. Follow the order of operations when finding each value.

16. $400 - (45 * 2) - (32 - 4) =$

$400 - (45 * 2) - (32 - 4) =$
$= 400 - 90 - 28 =$
$= 310 - 28 =$
$= \mathbf{282}$

17. $300 \div (60 \div 2 - 10 - 75 \div 15)$

$300 \div (60 \div 2 - 10 - 75 \div 15) =$
$= 300 \div (30 - 10 - 5) =$
$= 300 \div (20 - 5) =$
$= 300 \div 15 =$
$= 20$

18. $(100 \div 4 - 5) - 72 \div 9 =$

$(100 \div 4 - 5) - 72 \div 9 =$
$= (25 - 5) - 72 \div 9 =$
$= 20 - 72 \div 9 =$
$= 20 - 8 =$
$= \mathbf{12}$

19. $(210 \div 7 + 5) - (144 \div 6 - 1) =$

$(210 \div 7 + 5) - (144 \div 6 - 1) =$
$= (30 + 5) - (24 - 1) =$
$= 35 - 23 =$
$= \mathbf{12}$

20. $9^2 - (45 - 6^2) + (32 \div 4) =$

$9^2 - (45 - 6^2) + (32 \div 4) =$
$= 81 - (45 - 36) + 8 =$
$= 81 - 9 + 8 =$
$= 72 + 8 =$
$= \mathbf{80}$

21. $254 + (9^2 - 6^2 * 2)^2 =$

$254 + (9^2 - 6^2 * 2)^2 =$
$= 254 + (81 - 36 * 2)^2 =$
$= 254 + (81 - 72)^2 =$
$= 254 + (9)^2 =$
$= 254 + 81 =$
$= \mathbf{335}$

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22. $(15^2 \div 25 - 5) * (72 \div 3^2) + 65 =$

$(15^2 \div 25 - 5) * (72 \div 3^2) + 65 =$
$= (225 \div 25 - 5) * (72 \div 9) + 65 =$
$= (9 - 5) * 8 + 65 =$
$= 4 * 8 + 65 =$
$= 32 + 65 =$
$= 97$

23. $[(32 \div 2^3) + 4 * 2]^2 - (14 \div 7 - 1) =$

$[(32 \div 2^3) + 4 * 2]^2 - (14 \div 7 - 1) =$
$= [(32 \div 8) + 4 * 2]^2 - (2 - 1) =$
$= [4 + 4 * 2]^2 - 1 =$
$= [4 + 8]^2 - 1 =$
$= [12]^2 - 1 =$
$= 144 - 1 =$
$= 143$

Solve the following problems.

24. Mark has $1,000. He spends $910 on shopping. Later he divides all the money into three parts out of which two parts were distributed and one part he keeps for himself. Then he found $100 on the road. Write the final expression and find the money he has left?

$(1,000 - 910) \div 3 + 100 =$
$= 90 \div 3 + 100 =$
$= 30 + 100 =$
$= 130$

25. Annabel had $50 and withdrew $800 from his bank account. She bought a bag for $45.00, 2 shirts for $150.00 each, and 2 pairs of shoes for $199.00 each. Give the final expression, and determine how much money Annabel had at the end of the shopping day.

$(50 + 800) - (45 + 2 * 150 + 2 * 199) =$
$= 850 - (45 + 300 + 398) =$
$= 850 - (345 + 398) =$
$= 850 - 743 =$
$= 107$