

**Sixth Grade - Rational Numbers**

1) Use the distributive law to evaluate $11^2 + (11 \times 4) - (10 \times 11)$

- 55
- 45
- 65
- 35

2) Use the distributive law to evaluate $22^2 + (22 \times 5) - (12 \times 22)$

- 210
- 330
- 280
- 250

3) Use the distributive law to evaluate $41^2 + (41 \times 5) - (41 \times 2)$

- 1790
- 1705
- 1804
- 1890

4) Use the distributive law to evaluate $32^2 + (32 \times 6) - (32 \times 10)$

- 812
- 756
- 896
- 789

5) Use the distributive law to evaluate $52^2 + (52 \times 6) - (52 \times 10)$



- 1890
- 1976
- 1910
- 1850

6) Use the distributive law to evaluate $20^2 + (20 \times 6) - (20 \times 10)$

- 600
- 800
- 700
- 500

7) Use the distributive law to evaluate $10^2 + (10 \times 6) - (10 \times 4)$

- 200
- 120
- 220
- 250

8) Use the distributive law to evaluate $13^2 + (13 \times 8) - (13 \times 5)$

- 180
- 210
- 208
- 240

9) Use the distributive law to evaluate $19^2 + (19 \times 8) - (19 \times 5)$

- 350
- 418
- 390
- 400



10) Use the distributive law to evaluate $11^2 + (11 \times 5) - (11 \times 5)$

- 132
- 140
- 120
- 112

11) Evaluate: $4 \times 10 - (-16) / 4$

- 44
- 54
- 34
- 65

12) Evaluate: $6 \times 10 - (-18) / 3$

- 90
- 66
- 56
- 70

13) Evaluate: $6 \times 7 - (-50) / 5$

- 42
- 40
- 24
- 30

14) Evaluate: $8 \times 7 - (-40) / 5$

- 64
- 50



- 70
- 54

15) Evaluate: $9 \times 7 - (-45) / 9$

- 60
- 68
- 55
- 50

16) Evaluate: $7 \times 7 - (-49) / 7$

- 66
- 60
- 50
- 56

17) Evaluate: $3 \times 7 - (-42) / 7$

- 21
- 20
- 17
- 27

18) Evaluate: $5 \times 8 - (-40) / 8$

- 34
- 50
- 40
- 45



19) Evaluate: $8 \times 6 - (-50) / 5$

- 58
- 68
- 55
- 70

20) Evaluate: $7 \times 4 - (-56) / 8$

- 40
- 45
- 30
- 35

21) Both liquids A and B used in an experiment were at a temperature of -5°C , Liquid A was heated until its temperature rose by 12°C . Write down its new temperature?

- 7
- 4
- 5
- 8

22) Both acids Oxalic Acid and Nitric Acid used in an experiment were at a temperature of 8°C , Oxalic Acid was heated until its temperature rose by 4°C . Write down its new temperature?

- 5
- 6
- 4
- 2

23) Both liquids Milk and Water used in an experiment were at a temperature of 16°C , Liquid Milk was heated until its temperature rose by 12°C . Write down its new temperature?



- 4
- 8
- 6
- 3

24) Both liquids P and Q used in an experiment were at a temperature of 26°C, Liquid P was heated until its temperature rose by 14°C. Write down its new temperature?

- 15
- 19
- 10
- 12

25) Both acids Chlorous Acid and Hydrochloric Acid used in an experiment were at a temperature of 20°C, Chlorous Acid was heated until its temperature rose by 17°C. Write down its new temperature?

- 4
- 3
- 5
- 7

26) Both acids Xenic Acid and Formic Acid used in an experiment were at a temperature of 28°C, Xenic Acid was heated until its temperature rose by 24°C. Write down its new temperature?

- 6
- 5
- 3
- 4

27) Both liquids X and Y used in an experiment were at a temperature of 36°C, Liquid X was heated until its temperature rose by 12°C. Write down its new temperature?

- 20
- 18



- 24
- 26

28) Both acids Malic Acid and Folic Acid used in an experiment were at a temperature of -26°C , Malic Acid was heated until its temperature rose by 2°C . Write down its new temperature?

- -28
- -10
- -25
- -20

29) Both liquids A and B used in an experiment were at a temperature of -46°C , Liquid A was heated until its temperature rose by 22°C . Write down its new temperature?

- -68
- -76
- -50
- -60

30) Both liquids M and N used in an experiment were at a temperature of 33°C , Liquid M was heated until its temperature rose by 10°C . Write down its new temperature?

- 29
- 35
- 20
- 23