Sixth Grade - Rational Numbers

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

- 35
- 45
- 55
- 65

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

- 280
- 330
- 250
- 210

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

- 1705
- 1790
- 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 $52^2 + (52 \times 6) – (52 \times 10)$

- 1976
- 1890
- 1910
- 1850

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

- 500
- 800
- 700
- 600

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

- 200
- 220
- 120
- 250

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

- 208
- 240
- 210
- 180

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

- 350
- 390
- 418
- 400

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

- 112
- 120
- 132
- 140

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

- 54
- 44
- 65
- 34

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

- 66
- 70
- 56
- 90

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

- 40
- 42
- 30
- 24

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

- 70
- 64

- 50
- 54

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

- 55
- 68
- 60
- 50

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

- 60
- 56
- 66
- 50

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

- 17
- 20
- 27
- 21

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

- 45
- 50
- 34
- 40

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

- 70
- 58
- 68
- 55

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

- 40
- 30
- 35
- 45

21) Both liquids A and B used in an experiment were at a temperature of -5ºC, Liquid A was heated until its temperature rose by 12ºC. 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 8ºC, Oxalic Acid was heated until its temperature rose by 4ºC. Write down its new temperature?

- 2
- 5
- 6
- 4

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

- 6
- 3
- 8
- 4

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

- 19
- 12
- 15
- 10

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

- 3
- 7
- 4
- 5

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

- 4
- 5
- 6
- 3

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

- 18
- 24

- 20
- 26

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

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

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

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

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

- 35
- 23
- 29
- 20