**Solving Linear Equations**

Solve each equation.

1. n – 20 = 5

*SOLUTION*:

n – 20 = 5

n – 20 + 20 = 5 + 20

n = 25

*ANSWER*:

n = 25

2. 104 = y - 67

*SOLUTION*:

104 = y – 67

104 + 67 = y – 67 + 67

171 = y

*ANSWER*:

y = 171

3. -4 + t = -7

*SOLUTION*:

-4 + t = -7

-4 + 4 + t = -7 + 4

t = -3

*ANSWER*:

t = -3

4. g + 5 = 33

*SOLUTION*:

g + 5 = 33

g + 5 – 5 = 33 – 5

g = 28

*ANSWER*:

g = 28

5. 19 + p = 6

*SOLUTION*:

19 + p = 6

19 – 19 + p = 6 – 19

p = -13

*ANSWER*:

p = -13

6. 15 = b – (-65)

*SOLUTION:*

15 = b – (-65)

15 – 65 = b – (-65) – 65

b = -50

*ANSWER*:

b = -50

13. v – 9 = 14

*SOLUTION*:

v – 9 = 14

v – 9 + 9 = 14 + 9

v = 23

*ANSWER*:

v = 23

14. 44 = t – 72

*SOLUTION*:

44 = t – 72

44 + 72 = t – 72 + 72

116 = t

*ANSWER*:

t = 116

15. -61 = d + (-18)

*SOLUTION*:

-61 = d + (-18)

-61 + 18 = d + (-18) + 18

d = -43

*ANSWER*:

d = -43

16. p + (-26) = 16

*SOLUTION*:

p + (-26) = 16

p + (-26) + 26 = 16 + 26

p = 42

*ANSWER*:

p = 42

17. 18 + z = 40

*SOLUTION*:

18 + z = 40

18 – 18 + z = 40 – 18

z = 22

*ANSWER*:

z = 22

18. 19 = c + 12

*SOLUTION*:

19 = c + 12

19 – 12 = c + 12 – 12

7 = c

*ANSWER*:

c = 7

19. n + 23 = 4

*SOLUTION*:

n + 23 = 4

n + 23 – 23 = 4 – 23

n = -19

*ANSWER*:

n = -19

20. -67 = 11 + k

*SOLUTION*:

-67 = 11 + k

-67 – 11 = 11 – 11 + k

-78 = k

*ANSWER*:

k = -78

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14.

*SOLUTION:*

x = 90

*ANSWER:*

x = 90

15.

*SOLUTION:*

b = -77

*ANSWER:*

b = -77

16.

*SOLUTION*:

The LCD for the fractions is 24

18 = c

*ANSWER*:

c = 18

17.

*SOLUTION*:

The LCD for the fractions is 24

16 = y

*ANSWER*:

y = 16

18.

*SOLUTION*:

undoes the fraction with n

n = 21

*ANSWER*:

n = 21

19.

*SOLUTION*:

undoes the fraction with g

g = -10

*ANSWER*:

g = -10