Name: .............................................................. Class: ..............................

## Solve equations involving like terms

Solve on the rough paper then write the correct answer (follow the example).

**1.** Find the value of **m**.
$9m + 3m - 10m = 74$

**4.** Find the value of **x**.
$x + 8x + 3x = 60$

**7.** Find the value of **t**.
$20 = 10t + 15t - 24t$

**2.** Find the value of **p**.
$19p - 7p = 144$

**5.** Find the value of **p**.
$10p + 2p + 15p = 54$

**3.** Find the value of **u**.
$25u - 3u - 11u = 11$

**6.** Find the value of **u**.
$50u - 25u + 45u = 700$

Find the value of the variables in the following expressions and choose the most correct answer.

**8.** $6m - 2m + 4m = 8$   ☐ m = 8   ☐ m = 16   ☐ m = 4   ☐ m = 1

**9.** $10t + 15t + t = 78$   ☐ t = 3   ☐ t = 78   ☐ t = 26   ☐ t = -3

**10.** $25u + 5u - 10u = 40$   ☐ u = 20   ☐ u = 40   ☐ u = 2   ☐ u = 40

**11.** $6s - 3s - 2s = 59$   ☐ s = 59   ☐ s = 1   ☐ s = 58   ☐ s = 50

**12.** $2x - x + 17x = 216$   ☐ x = 216   ☐ x = 12   ☐ x = 18   ☐ x = 70

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## Solve equations involving like terms

Solve on the rough paper then write the correct answer (follow the example).

**1.** Find the value of **m**.

9m + 3m - 10m = 74

Combine the m terms.

9m + 3m - 10m = 74

    12m - 10m = 74

         2m = 74

Divide both sides by 2 to solve for **m**.

2m = 74

$\dfrac{2m}{2} = \dfrac{74 \div 2}{2 \div 2}$

**m = 37**

**2.** Find the value of **p**.

19p - 7p = 144

**p = 12**

**3.** Find the value of **u**.

25u - 3u - 11u = 11

**u = 1**

**4.** Find the value of **x**.

x + 8x + 3x = 60

**x = 5**

**5.** Find the value of **p**.

10p + 2p + 15p = 54

**p = 2**

**6.** Find the value of **u**.

50u - 25u + 45u = 700

**u = 10**

**7.** Find the value of **t**.

20 = 10t + 15t - 24t

**t = 20**

Find the value of the variables in the following expressions and choose the most correct answer.

**8.** 6m - 2m + 4m = 8    ☐ m=8    ☐ m=16    ☐ m=4    ☑ m=1

**9.** 10t + 15t + t = 78    ☑ t=3    ☐ t=78    ☐ t=26    ☐ t=-3

**10.** 25u + 5u - 10u = 40    ☐ u=20    ☐ u=40    ☑ u=2    ☐ u=40

**11.** 6s - 3s - 2s = 59    ☑ s=59    ☐ s=1    ☐ s=58    ☐ s=50

**12.** 2x - x + 17x = 216    ☐ x=216    ☑ x=12    ☐ x=18    ☐ x=70