Name			
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One-Step Equations—Addition and Subtraction

1. If you know the answer, state it. Then use a tape diagram to demonstrate why this is the correct answer. If you do not know the answer, find the solution using a tape diagram.

$$j + 12 = 25$$

Find the solution to the equation algebraically. Check your answer.

$$k - 16 = 4$$

1. Find the solution to the equation below using tape diagrams. Check your answer.

$$m - 7 = 17$$

2. Find the solution of the equation below algebraically. Check your answer.

$$n + 14 = 25$$

Find the solution of the equation below using tape diagrams. Check your answer.

$$p + 8 = 18$$

Find the solution to the equation algebraically. Check your answer.

$$g - 62 = 14$$

5. Find the solution to the equation using the method of your choice. Check your answer.

$$m + 108 = 243$$

Identify the mistake in the problem below. Then, correct the mistake.

$$p - 21 = 34$$

$$p - 21 - 21 = 34 - 21$$

$$p = 13$$

7. Identify the mistake in the problem below. Then, correct the mistake.

$$q + 18 = 22$$

$$q + 18 - 18 = 22 + 18$$

$$q = 40$$

Match the equation with the correct solution on the right.

$$r + 10 = 22$$

$$r = 10$$

$$r - 15 = 5$$

$$r = 20$$

$$r - 18 = 14$$

$$r = 12$$

$$r + 5 = 15$$

$$r = 32$$

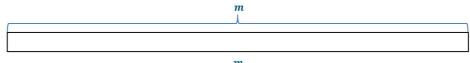
If you know the answer, state it. Then use a tape diagram to demonstrate why this is the correct answer. If you do not know the answer, find the solution using a tape diagram. j + 12 = 2525 12 13 12 12 13 j 12 *j* is equal to 13; j = 13. Check: 13 + 12 = 25; 25 = 25. This is a true number sentence, so the solution is correct. Find the solution to the equation algebraically. Check your answer.

$$k-16 = 4$$
 $k-16+16 = 4+16$
 $k = 20$

Check: 20 - 16 = 4; 4 = 4. This is a true number sentence, so the solution is correct.

Find the solution to the equation below using tape diagrams. Check your answer.

$$m - 7 = 17$$



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7	m-7=17

17 m is equal to 24; m = 24.

Check: 24 - 7 = 17; 17 = 17. This number sentence is true, so the solution is correct.

Find the solution of the equation below algebraically. Check your answer.

$$n + 14 = 25$$

 $n + 14 - 14 = 25 - 14$

n = 11

Check: 11 + 14 = 25; 25 = 25. This number sentence is true, so the solution is correct.

Find the solution of the equation below using tape diagrams. Check your answer.

$$p + 8 = 18$$

p = 10

p



10

8

10

Check: 10 + 8 = 18; 18 = 18. This number sentence is true, so the solution is correct.

Find the solution to the equation algebraically. Check your answer.

$$g-62 = 14$$

 $g-62+62 = 14+62$
 $g=76$

Check: 76 - 62 = 14; 14 = 14. This number sentence is true, so the solution is correct.

Find the solution to the equation using the method of your choice. Check your answer.

$$m + 108 = 243$$

Tape Diagrams:

100	
243	
135	108
•	
243	
m	108
•	
135	108
m	108
135	
m	
Alachustaultu	

Algebraically:

$$m + 108 = 243$$

 $m + 108 - 108 = 243 - 108$
 $m = 135$

Check: 135 + 108 = 243; 243 = 243. This number sentence is true, so the solution is correct.

Identify the mistake in the problem below. Then, correct the mistake.

$$p-21 = 34$$
 $p-21-21 = 34-21$
 $p = 13$

The mistake is subtracting rather than adding 21. This is incorrect because p-21-21 would not equal p.

$$p-21 = 34$$
 $p-21+21 = 34+21$
 $p = 55$

Identify the mistake in the problem below. Then, correct the mistake.

$$q + 18 = 22$$

 $q + 18 - 18 = 22 + 18$
 $q = 40$

The mistake is adding 18 on the right side of the equation instead of subtracting it from both sides.

$$q + 18 = 22$$

 $q + 18 - 18 = 22 - 18$
 $q = 4$

Match the equation with the correct solution on the right.

$$r + 10 = 22$$

 $r - 15 = 5$

$$r - 15 = 5$$
$$r - 18 = 14$$

$$r = 10$$
$$r = 20$$

$$r = 12$$

$$r = 32$$

$$r + 5 = 15$$