

Name: Class:

Solve equations involving integers

1. Find the value of **c**. $-5 + c = -4$ Add **-5** to both sides to solve for **c**. $-5 + c = -4$ $(-5+5) + c = (-4) + 5$ **c = 1**

Solve each equation below. Choose the most correct answer from the list.

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|-----|---------------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| 1. | $r = 10 - 60$ | ☐ $r=40$ | ☐ $r=-60$ | ☐ $r=-50$ | ☐ $r=60$ |
| 2. | $m = 34 - 2$ | ☐ $m=32$ | ☐ $m=22$ | ☐ $m=10$ | ☐ $m=-18$ |
| 3. | $(-3)z = -12$ | ☐ $z=-9$ | ☐ $z=-27$ | ☐ $z=4$ | ☐ $z=81$ |
| 4. | $-100 = 100m$ | ☐ $m=-1$ | ☐ $m=1$ | ☐ $m=10$ | ☐ $m=-10$ |
| 5. | $r = 14 - 20$ | ☐ $r=-6$ | ☐ $r=4$ | ☐ $r=6$ | ☐ $r=-14$ |
| 6. | $c = 20 + 61$ | ☐ $c=41$ | ☐ $c=81$ | ☐ $c=-61$ | ☐ $c=10$ |
| 7. | $n - 13 = -14$ | ☐ $n=-7$ | ☐ $n=1$ | ☐ $n=7$ | ☐ $n=-1$ |
| 8. | $g - 28 = 42$ | ☐ $g=24$ | ☐ $g=70$ | ☐ $g=-24$ | ☐ $g=-40$ |
| 9. | $12k = -288$ | ☐ $k=-24$ | ☐ $k=-301$ | ☐ $k=387$ | ☐ $k=8$ |
| 10. | $u \div (-5) = -25$ | ☐ $u=-25$ | ☐ $u=-125$ | ☐ $u=125$ | ☐ $u=-75$ |
| 11. | $a + 53 = 23$ | ☐ $a=30$ | ☐ $a=56$ | ☐ $a=-56$ | ☐ $a=-30$ |
| 12. | $(-18d) = -1,314$ | ☐ $d=73$ | ☐ $d=-73$ | ☐ $d=1,296$ | ☐ $d=1,332$ |
| 13. | $16 - u = 50$ | ☐ $u=46$ | ☐ $u=34$ | ☐ $u=-34$ | ☐ $u=-46$ |
| 14. | $30 + (-31) = v$ | ☐ $v=1$ | ☐ $v=-21$ | ☐ $v=21$ | ☐ $v=-1$ |

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$-5 + c = -4$			

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