

Name

Date



## ABSOLUTE VALUES EQUATIONS 2

Work out the solutions to these equations involving absolute values.

1)	$ a - 4  = 8$	$a =$ _____ or _____
2)	$ 6 + b  = 10$	$b =$ _____ or _____
3)	$ 9 - c  = 4$	$c =$ _____ or _____
4)	$ 3 + d + 5  = 7$	$d =$ _____ or _____
5)	$ 2e  = 24$	$e =$ _____ or _____
6)	$ 2f + 1  = 13$	$f =$ _____ or _____
7)	$3 g - 4  = 12$	$g =$ _____ or _____
8)	$\frac{1}{2} h + 2  = 3$	$h =$ _____ or _____
9)	$ 4i  -  -7  = 1$	$i =$ _____ or _____
10)	$ 2(j - 3)  = 6$	$j =$ _____ or _____
11)	$ 4(k + 3)  = 20$	$k =$ _____ or _____
12)	$ 8 - 2l  = 6$	$l =$ _____ or _____
13)	$3 m - 5  = 21$	$m =$ _____ or _____
14)	$ 2n - 3  = 11$	$n =$ _____ or _____
15)	$ 10 - 2o  = 4$	$o =$ _____ or _____
16)	$ 3(p - 2)  = 24$	$p =$ _____ or _____
17)	$5 4 - q  = 30$	$q =$ _____ or _____
18)	$\frac{1}{2} r + 6  = 12$	$r =$ _____ or _____
19)	$ \frac{1}{2}(s - 3)  = 7$	$s =$ _____ or _____
20)	$ 6 - \frac{1}{4}t  = 4$	$t =$ _____ or _____

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## ABSOLUTE VALUES EQUATIONS 2 ANSWERS

Work out the solutions to these equations involving absolute values.

1)	$ a - 4  = 8$	$a = \underline{12}$ or $\underline{-4}$
2)	$ 6 + b  = 10$	$b = \underline{4}$ or $\underline{-16}$
3)	$ 9 - c  = 4$	$c = \underline{5}$ or $\underline{13}$
4)	$ 3 + d + 5  = 7$	$d = \underline{-1}$ or $\underline{-15}$
5)	$ 2e  = 24$	$e = \underline{12}$ or $\underline{-12}$
6)	$ 2f + 1  = 13$	$f = \underline{6}$ or $\underline{-7}$
7)	$3 g - 4  = 12$	$g = \underline{8}$ or $\underline{0}$
8)	$\frac{1}{2} h + 2  = 3$	$h = \underline{4}$ or $\underline{-8}$
9)	$ 4i  -  -7  = 1$	$i = \underline{2}$ or $\underline{-2}$
10)	$ 2(j - 3)  = 6$	$j = \underline{6}$ or $\underline{0}$
11)	$ 4(k + 3)  = 20$	$k = \underline{2}$ or $\underline{-8}$
12)	$ 8 - 2l  = 6$	$l = \underline{3}$ or $\underline{7}$
13)	$3 m - 5  = 21$	$m = \underline{12}$ or $\underline{-2}$
14)	$ 2n - 3  = 11$	$n = \underline{7}$ or $\underline{-4}$
15)	$ 10 - 2o  = 4$	$o = \underline{3}$ or $\underline{7}$
16)	$ 3(p - 2)  = 24$	$p = \underline{10}$ or $\underline{-6}$
17)	$5 4 - q  = 30$	$q = \underline{-2}$ or $\underline{10}$
18)	$\frac{1}{2} r + 6  = 12$	$r = \underline{18}$ or $\underline{-30}$
19)	$ \frac{1}{2}(s - 3)  = 7$	$s = \underline{17}$ or $\underline{-11}$
20)	$ 6 - \frac{1}{4}t  = 4$	$t = \underline{8}$ or $\underline{40}$