

**ANSWER, FIND, and SHADE**  
**MULTI-STEP EQUATIONS**

**ANSWERS**

1.  $-3r = \frac{1}{2}(32 - 8r)$

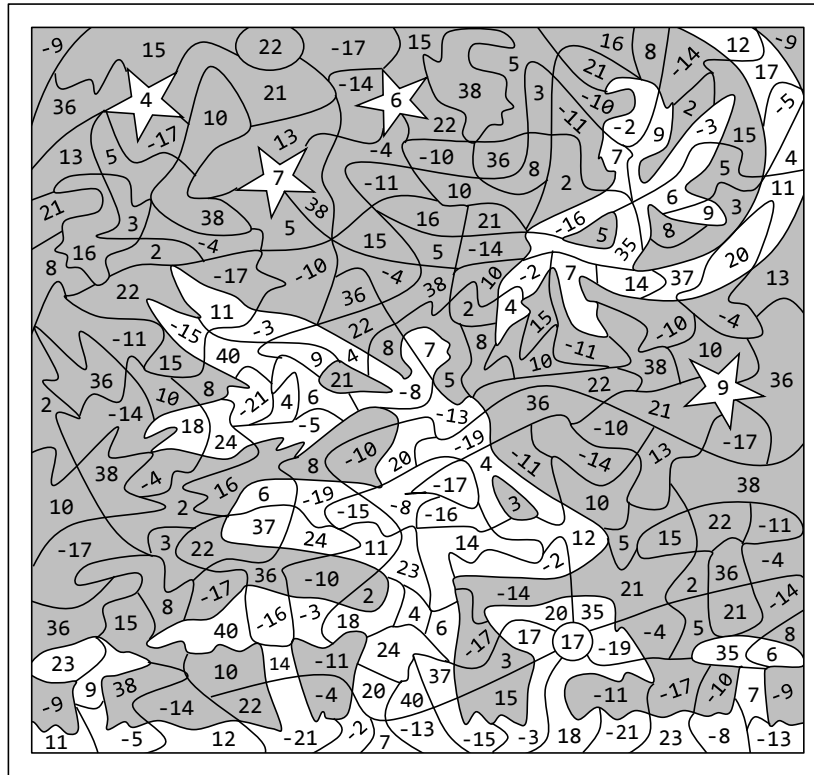
**$r = 16$**

3.  $43 - 2(2 + p) = p$

**$p = 13$**

5.  $1 = \frac{1}{2}y - \frac{2}{3}(1 - \frac{1}{2}y)$

**$y = 2$**



2.  $\frac{1}{4}(3d - 2) = \frac{1}{8}(5d - 1)$

**$d = 3$**

4.  $-\frac{1}{9}(2c - 54) = \frac{8}{45}c$

**$c = 15$**

6.  $\frac{3}{11}g = \frac{4}{11}(29 - g) + 3\frac{5}{11}$

**$g = 22$**

7.  $-4(x + 10) = 3(x + 19\frac{1}{3})$

**$x = -14$**

8.  $\frac{1}{5}(70 + 4n) = -(19 + 2\frac{1}{5}n)$

**$n = -11$**

9.  $-3(\frac{1}{14}t - 5) = \frac{2}{7}t - 6 + \frac{1}{2}t$

**$t = 21$**

10.  $\frac{1}{12}(12 - v) = \frac{1}{6}(v - 6)$

**$v = 8$**

11.  $-\frac{1}{2}k - \frac{8}{9} = 1\frac{2}{3} + \frac{5}{18}k + \frac{5}{9}$

**$k = -4$**

12.  $2(\frac{2}{3}b - 3\frac{5}{6}) = \frac{2}{3} + \frac{1}{2}b$

**$b = 10$**

13.  $5(m + 9) = 1 - (75 + 2m)$

**$m = -17$**

14.  $\frac{1}{2}h + 77 = \frac{2}{3}(6h - 84)$

**$h = 38$**

15.  $3(1 - f) = 96 - 10f + 159$

**$f = 36$**

16.  $\frac{3}{4}(e - 8) = \frac{1}{10}(1\frac{1}{2}e - 30)$

**$e = 5$**

17.  $2w + 18 + w = -w - 22$

**$w = -10$**

18.  $3 - 2(6 - q) = 3q$

**$q = -9$**