

## PAlg - Two-Step Eq. w/ Frac. &amp; Dec. (7-3) HW

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**For questions 1-2, FIRST write the equation described by the question, THEN solve.**

- 1) Mei had \$21.62 to spend on six notebooks. After buying them she had \$5.24. How much did each notebook cost?
- 2) Mike's Bikes rents bikes for \$14.70 plus \$3.20 per hour. Trevon paid \$37.10 to rent a bike. For how many hours did he rent the bike?

**Solve each equation.**

3)  $5\frac{1}{3} = -3\frac{1}{2}p - \frac{1}{2}$

4)  $4\frac{5}{9} = \frac{2}{3} - 3\frac{1}{3}v$

5)  $-7\frac{11}{18} = -3\frac{1}{3} - 3\frac{2}{3}a$

6)  $\frac{b}{-2.3} + 1.4 = 3.008$

7)  $-2.83 = \frac{n - 2.66}{2.6}$

8)  $1.272 = \frac{0.8 + n}{2.2}$

9)  $\frac{1}{3} = 1\frac{1}{3}\left(-2\frac{1}{2}x + 1\frac{1}{2}\right)$

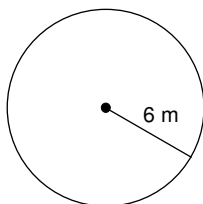
10)  $\frac{2}{3}\left(-3\frac{1}{2}r - \frac{3}{2}\right) = 2 - \left(1\frac{1}{3}r + \frac{2}{3}\right)$

11)  $2.4(1 + 1.3x) = 0.528$

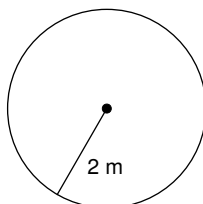
12)  $2.1(p - 2.78) = 0.9p + 2.8(p - 1.269)$

**For a circle,  $A = r^2\pi$ , where the area  $A$  is equal to the radius squared (multiplied by itself) times  $\pi$ . Find the area of each. For 13-15, keep your answers in terms of  $\pi$ . For 16-18, use 3.14 as  $\pi$  and round your answers to the nearest tenth.**

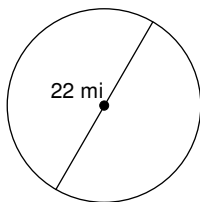
13)



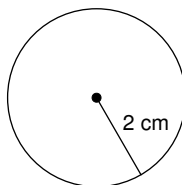
14)



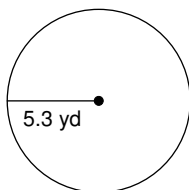
15)



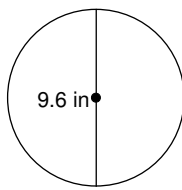
16)



17)



18)



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**Solve each equation.**

3)  $5\frac{1}{3} = -3\frac{1}{2}p - \frac{1}{2}$   **$\left\{-1\frac{2}{3}\right\}$**

4)  $4\frac{5}{9} = \frac{2}{3} - 3\frac{1}{3}v$   **$\left\{-1\frac{1}{6}\right\}$**

5)  $-7\frac{11}{18} = -3\frac{1}{3} - 3\frac{2}{3}a$   **$\left\{1\frac{1}{6}\right\}$**

6)  $\frac{b}{-2.3} + 1.4 = 3.008$   
 **$\{-3.6984\}$**

7)  $-2.83 = \frac{n - 2.66}{2.6}$   
 **$\{-4.698\}$**

8)  $1.272 = \frac{0.8 + n}{2.2}$   
 **$\{1.9984\}$**

9)  $\frac{1}{3} = 1\frac{1}{3}\left(-2\frac{1}{2}x + 1\frac{1}{2}\right)$   **$\left\{\frac{1}{2}\right\}$**

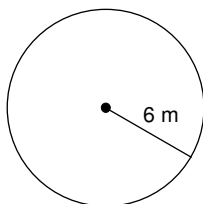
10)  $\frac{2}{3}\left(-3\frac{1}{2}r - \frac{3}{2}\right) = 2 - \left(1\frac{1}{3}r + \frac{2}{3}\right)$   **$\left\{-2\frac{1}{3}\right\}$**

11)  $2.4(1 + 1.3x) = 0.528$   
 **$\{-0.6\}$**

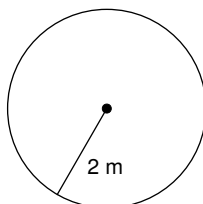
12)  $2.1(p - 2.78) = 0.9p + 2.8(p - 1.269)$   
 **$\{-1.428\}$**

**For a circle,  $A = r^2\pi$ , where the area  $A$  is equal to the radius squared (multiplied by itself) times  $\pi$ . Find the area of each. For 13-15, keep your answers in terms of  $\pi$ . For 16-18, use 3.14 as  $\pi$  and round your answers to the nearest tenth.**

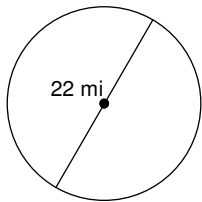
13)  **$36\pi \text{ m}^2$**



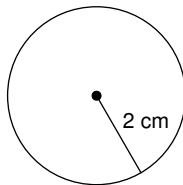
14)  **$4\pi \text{ m}^2$**



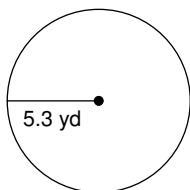
15)  **$121\pi \text{ mi}^2$**



16)  **$12.6 \text{ cm}^2$**



17)  **$88.2 \text{ yd}^2$**



18)  **$72.4 \text{ in}^2$**

