

Class/Homework



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Class work and homework

Mid-Unit Review

page 286

Questions: 3,4,5, 7, 8,

Worksheet questions

⊖ all circled questions

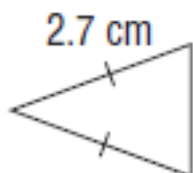
Mid-Unit Review**page 286****Questions: 3,4,5, 7, 8,**

3. Sheila is charged a fare of \$27.70 for a cab ride to her friend's house. The fare is calculated using a flat fee of \$2.50, plus \$1.20 per kilometre. What distance did Sheila travel?

a) Let k kilometres represent the distance travelled. Write an equation to solve the problem. Solve the problem.

b) Verify the solution.

4. An isosceles triangle has two equal sides of length 2.7 cm and perimeter 7.3 cm.



- a) Write an equation that can be used to determine the length of the third side.
- b) Solve the equation.
- c) Verify the solution.

5. Solve each equation. Verify the solution.

a) $\frac{k}{3} = -1.5$

b) $10.5 = 3b - 12.5$

c) $5(x - 7.2) = 14.5$

d) $8.4 = 1.2b$

f) $-8 = 0.4(3.2 + h)$

e) $2 + \frac{n}{3} = 2.8$

7. Solve each equation. Verify the solution.

a) $\frac{56}{a} = -3.5$

b) $8w - 12.8 = 6w$

c) $-8z + 11 = -10 - 5.5z$

d) $\frac{5x}{2} = 11 + \frac{2x}{3}$

e) $0.2(5 - 2r) = 0.3(1 - r)$

f) $12.9 + 2.3y = 4.5y + 19.5$

g) $\frac{2}{5}(m + 4) = \frac{1}{5}(3m + 9)$

8. Skateboards can be rented from two shops in a park.

Shop Y charges \$15 plus \$3 per hour

Shop Z charges \$12 plus \$4 per hour

Determine the time in hours for which the rental charges in both shops are equal.

- a) Write an equation to determine the time.
- b) Solve the equation.
- c) Verify the solution.

1/2

Equations $ax + b = c$

Per/Sec. _____ Date _____

Solve.

1. $-2x + 51 = -3$

3. $-39 = -18w - 21$

5. $-95 - 6s = 25$

7. $-14d + 15 = 21$

9. $0 = \frac{r}{2} + 8$

11. $16 + \frac{4h}{9} = 16$

13. $0 = 10k - \frac{1}{5}$

15. $0 = \frac{2m}{9} - \frac{2}{3}$

17. $\frac{7a}{6} + \frac{4}{3} = \frac{1}{3}$

19. $-\frac{3}{2} = -\frac{5k}{7} - \frac{1}{4}$

21. $3p - 6 = -0.6$

23. $-1.6s - 0.4 = -10$

2. $17 = 17 - 32p$

4. $-14t + 7 = 49$

6. $-8 = -4r - 13$

8. $-111 = 9a - 12$

10. $3 = 4 - \frac{1}{5}w$

12. $15 = 7 + \frac{12z}{7}$

14. $\frac{11}{12} - 15y = \frac{9}{8}$

16. $\frac{2}{5} - \frac{1}{5}r = 2$

18. $\frac{1}{2}q + \frac{5}{3} = \frac{1}{6}$

20. $-1.5d - 13.5 = 0$

22. $-5u - 0.4 = -0.05$

24. $2.7 = -4.8 + 0.01b$

Math 9 Equations $ax + b = c$ JMH Math Dept. 11/13/2008

Answer List

- | | |
|--------------------|---------------------|
| 1. 27 | 2. 0 |
| 3. 1 | 4. -3 |
| 5. -20 | 6. $-\frac{5}{4}$ |
| 7. $-\frac{3}{7}$ | 8. -11 |
| 9. -16 | 10. 5 |
| 11. 0 | 12. $\frac{14}{3}$ |
| 13. $\frac{1}{50}$ | 14. $-\frac{1}{72}$ |
| 15. 3 | 16. -12 |
| 17. $-\frac{6}{7}$ | 18. -3 |
| 19. $\frac{7}{4}$ | 20. -9 |
| 21. 1.8 | 22. -0.07 |
| 23. 6 | 24. 750 |

Math 9

Name _____

Variables Both Sides

Per/Sec. _____ Date _____

Solve.

1) $4y - 10 = 3y$

2) $5 - 3w = 2w$

3) $4p + 2 = 11p$

4) $5x - 3 = -x$

5) $7r - 5 = 2r + 5$

6) $4a + 2 = 6a - 12$

7) $7m + 15 = 3m + 3$

8) $9r + 4 = 7r + 4$

9) $4x - 1 = 6x + 2$

10) $3a - 7 = a + 8$

11) $3z + 15 = 6z - 13$

12) $7w - 6 = 6w - 7$

13) $4f + 5 - 2f = 3f$

14) $6u + 7 - 3u = 8 + 5u - 11$

15) $5p + 2 - 3p = 8 + 4p - 6$

16) $9y - 1 - 7y = 7 - 6y - 15$

17) $9 + 6a - 14 = 8 - a - 6 + 4a$

18) $4(y + 8) = 7(y + 2)$

19) $4(2a - 2) = -2(1 - 5a)$

20) $6(4 - 3j) = -2(3j - 5)$

21) $3(g - 5) + 8g = 18 - (3 - 10g)$

22) $18 - (2a - 5) - 2(a + 2) = 3a + 5$

23) $\frac{1}{3}(6 - 15w) = \frac{3}{8}(40w - 8)$

24) $\frac{2}{3}(6x + 9) = \frac{1}{2}(10x - 2)$

25) $-\frac{5}{6}(30 + 18k) = \frac{2}{3}(45 - 15k)$

26) $10 - \frac{5}{8}h = \frac{3}{8}h - 6$

27) $\frac{3}{10}y = 19 - \frac{1}{5}y$

28) $4 - \frac{2}{3}m = \frac{1}{2}m$

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

30) $\frac{7(15 - 3c)}{8} = -5c + 6$

31) $12c + 2.6 = 6.8c$

32) $0.7d - 512 = 0.5d + 288$

33) $0.3n + 0.4 = 0.6n + 0.7 - 0.5n$

34) $0.4(4k - 0.9) = 0.1(k + 0.9)$

Answer List

- | | |
|--------------------|--------------------|
| 1. 10 | 2. 1 |
| 3. $\frac{2}{7}$ | 4. $\frac{1}{2}$ |
| 5. 2 | 6. 7 |
| 7. -3 | 8. 0 |
| 9. $-\frac{3}{2}$ | 10. $\frac{15}{2}$ |
| 11. $\frac{28}{3}$ | 12. -1 |
| 13. 5 | 14. 5 |
| 15. 0 | 16. $-\frac{7}{8}$ |
| 17. $\frac{7}{3}$ | 18. 6 |
| 19. -3 | 20. $\frac{7}{6}$ |
| 21. 30 | 22. 2 |
| 23. $\frac{1}{4}$ | 24. 7 |
| 25. -11 | 26. 16 |
| 27. 38 | 28. $\frac{24}{7}$ |
| 29. 5 | 30. -3 |
| 31. -0.5 | 32. 4000 |
| 33. 1.5 | 34. 0.3 |

Extra : ADVANCE

Math 9

Name _____

Distribution

Per/Sec. _____ Date _____

Solve.

1) $4(y - 9) - 10y = 0$

2) $-3(z + 5) + 29 = -10$

3) $22 = 5b + 7(b - 2)$

4) $-19 - 6(w - 8) = 35$

5) $57 = 22 - 7(k + 3)$

6) $21m + 6(m - 2) = 12$

7) $-11(4 - n) - n = -60$

8) $48 + 9(y - 5) = 48$

9) $6a + 2(4a + 1) = -5$

10) $-3(5 - 2t) + 28 = 1$

11) $55 + 5(3x + 7) = 0$

12) $13 = 4(-7r - 3) - 2r$

13) $-\frac{2}{3}(6z - 15) - 4z = 0$

14) $4x + \frac{1}{2}(12x + 2) = 3$

15) $\frac{1}{3}(2x - 5) + 1 = 4$

16) $-(8d - 7) - 63 = 0$

17) $-3u - (5u + 7) = -2$

18) $(6n - 9) - (2n - 19) = 0$

19) $-18 = -(7 - 2a) - (a + 12)$

20) $\frac{2}{5}(21 + 3a) + 6(\frac{1}{5} + a) = -15$

21) $10(\frac{1}{2}x - 2) - \frac{2}{5}(30 - 5x) = -11$

22) $\frac{1}{3}(r + 1) + \frac{1}{6}(2r - 5) = -1$

23) $7(2 - x) - 3(x + 1) + 3[9 - (4 - 2x)] = 18$

24) $-2(1 - 3y) - 3[(2 + y) - 5] + 3(y - 4) = 13$

Math 9 Distribution JMH Math Dept. 11/17/2008

Answer List


- | | |
|-------------------|--------------------|
| 1. -6 | 2. 8 |
| 3. 3 | 4. -1 |
| 5. -8 | 6. $\frac{8}{9}$ |
| 7. $-\frac{8}{5}$ | 8. 5 |
| 9. $-\frac{1}{2}$ | 10. -2 |
| 11. -6 | 12. $-\frac{5}{6}$ |
| 13. $\frac{5}{4}$ | 14. $\frac{1}{5}$ |
| 15. 7 | 16. -7 |
| 17. -58 | 18. $-\frac{5}{2}$ |
| 19. 1 | 20. -4 |
| 21. 3 | 22. $-\frac{3}{4}$ |
| 23. 2 | 24. 3 |


Class/Homework



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Worksheet

 Solve for the variable

 Variables on each side

 Distribute

Attachments

Equations01.pdf

Equations02.pdf

Equations03.pdf