

Chapter Six Practice Test Two

Solve.

1. $\frac{2}{7} \div \frac{6}{3} =$ _____

2. $3\frac{4}{5} \div \frac{2}{3} =$ _____

3. $6 \div \frac{7}{8} =$ _____

4. $3\frac{2}{5} \div 4\frac{1}{9} =$ _____

5. $-22 + (-6) =$ _____

6. _____ $= -19.2 + 4.48$

7. $-\frac{3}{4} - \left(-\frac{1}{9}\right) =$ _____

8. $(\text{OPP})(\text{OPP})(-14) + (\text{OPP})(-14) =$ _____

9. $-14 * 11 =$ _____

10. $(-10 * 4) * (-4) =$ _____

11. $112 / (-14) =$ _____

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Solve.

12. $(-90)/(-10) = \underline{\hspace{2cm}}$

13. Circle the number sentences below that are *true*.

$$7 + (-29) > -25$$

$$30 = -44^2 - (-6)$$

$$\frac{1}{7} + 29 < \frac{1}{8} + 30$$

$$-29 - (-44) = 15$$

$$44 * 10^3 = 10 * 44^3$$

$$23 * 1 = 23$$

Thirty - nine is ten times twenty - nine.

14. Explain how you can decide whether $1 - 8 = 8 - 1$ is true or false without performing any computations.

Solve. Follow the rules for the order of operations.

15. $10 + 20/5 * 6 = \underline{\hspace{2cm}}$

16. $9 * 7 + 4 - 8 \div 4 = \underline{\hspace{2cm}}$

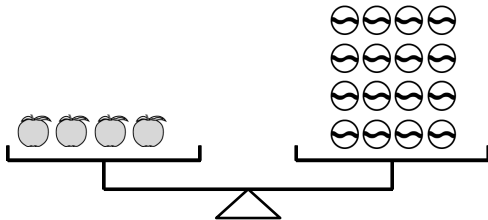
17. $8 * 7 - 3^3 + 3 = \underline{\hspace{2cm}}$

18. $\left(\frac{11}{2} - 3\right)^2 + \left(\frac{7}{2} - 2\right)^2 = \underline{\hspace{2cm}}$

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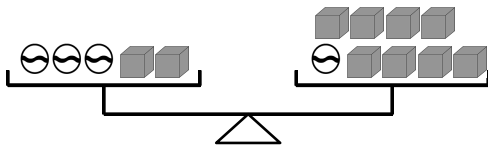
Solve the pan-balance problems.

19.



1 orange = _____ marbles.

20.



1 ball = _____ blocks.

Find the solution for each equation.

21. $\frac{p}{2} + 9 = 15$

$p =$ _____

22. $300 = 10^2 + v$

$v =$ _____

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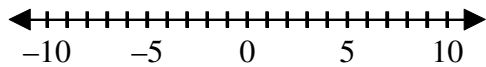
Solve each equation.

23. $\left(\frac{20}{7}\right)y - 24 = \left(\frac{17}{7}\right)y + 16$

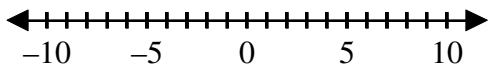
24. $5x + 12 = 25 - 3x$

Graph the solution set for each inequality.

25. $c < -6$



26. $e \geq -5$

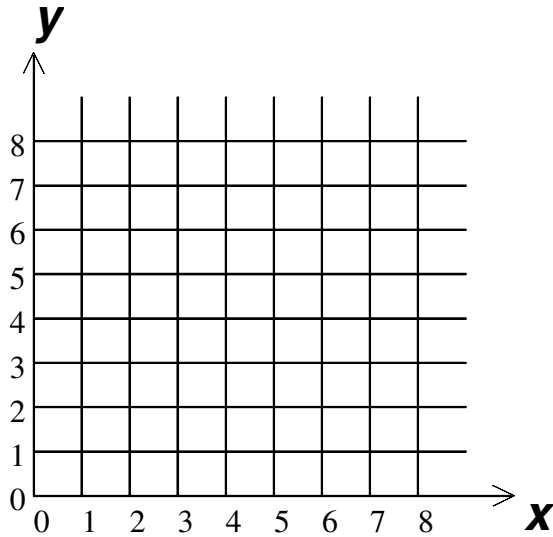


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27. a. Complete the table for the given rule. Then plot the points and connect them to make a line graph.

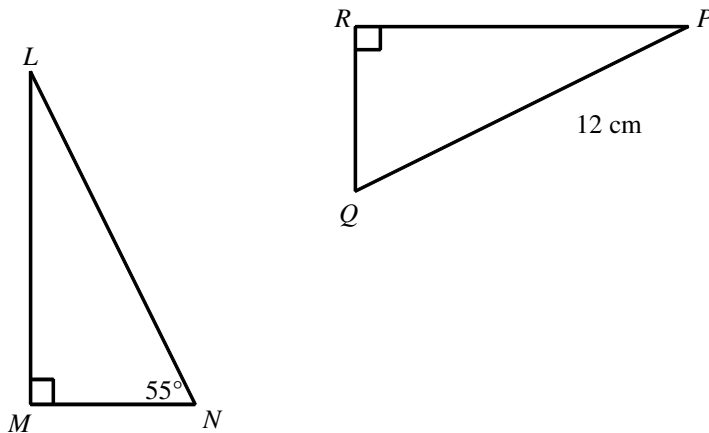
Rule: $y = \left(\frac{1}{2} \text{ of } x\right) + 1$

x	y
2	2
4	
6	
	$4\frac{1}{2}$
8	



- b. If $y = 4$, what is the value of x ?

28. Triangles LMN and PQR are congruent.



- a. Find the length of segment LN .
 b. Find the measure of angle Q .

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29. Estimate and divide:

$$16 \overline{)1,742.416} = \underline{\hspace{2cm}}$$

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[1] $\frac{1}{7}$ _____

[2] $5\frac{7}{10}$ _____

[3] $\frac{48}{7}$ _____

[4] $\frac{153}{185}$ _____

[5] -28 _____

[6] -14.72 _____

[7] $-\frac{23}{36}$ _____

[8] 0 _____

[9] -154 _____

[10] 160 _____

[11] -8 _____

[12] 9 _____

[13] $7 + (-29) > -25; -29 - (-44) = 15; 23 * 1 = 23; \frac{1}{7} + 29 < \frac{1}{8} + 30$ _____

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[14] Sample answer: Subtraction is not commutative, so $1 - 8 = 8 - 1$ must be false.

[15] 34

[16] 65

[17] 32

[18] $\frac{17}{2}$

[19] 4

[20] 3

[21] 12

[22] 200

Operation

A $24 \quad \left(\frac{20}{7}\right)y = \left(\frac{17}{7}\right)y + 40$

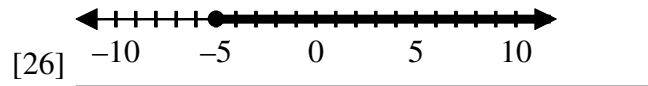
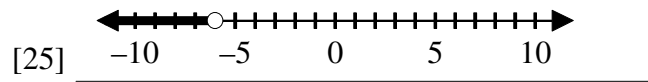
S $\left(\frac{17}{7}\right)y \quad \left(\frac{3}{7}\right)y = 40$

D $\left(\frac{3}{7}\right) \quad 93.33$

[23] Solution: 93.33

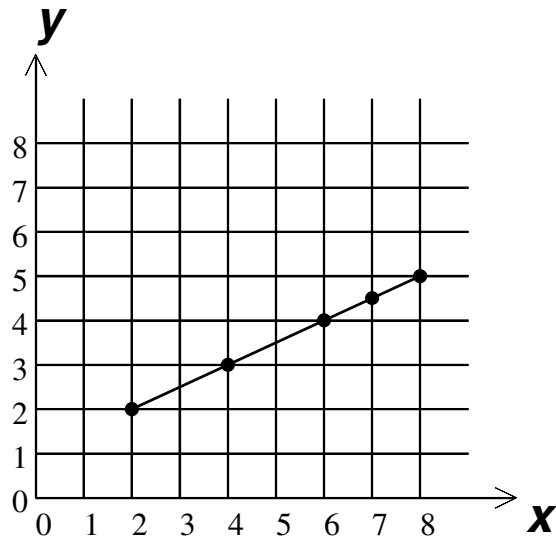
[24] Solution: $x = \frac{13}{8}$

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a.

x	y
2	2
4	3
6	4
7	$4\frac{1}{2}$
8	5



[27] b. 6 _____

a. 12 cm
 [28] b. 55° _____

[29] 108.901 _____