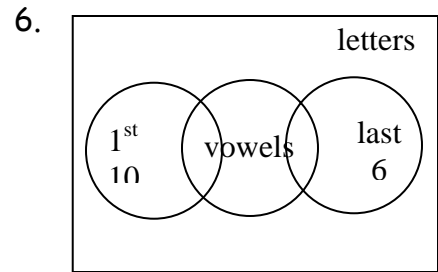
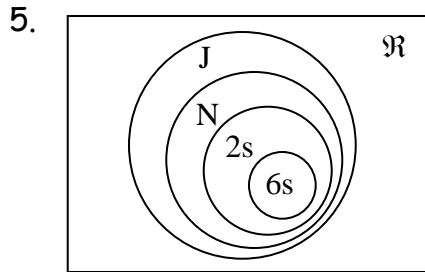
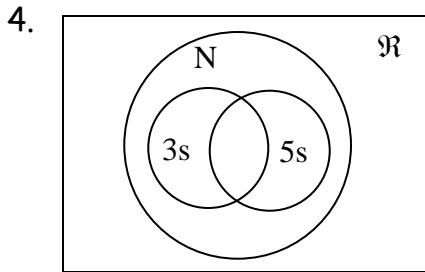
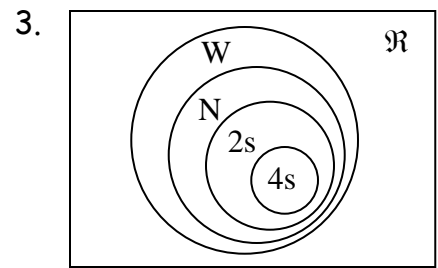
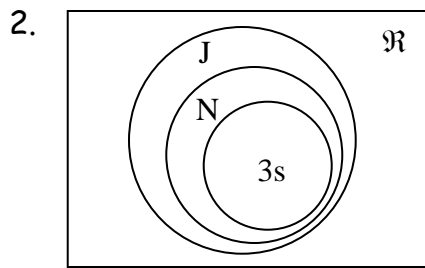
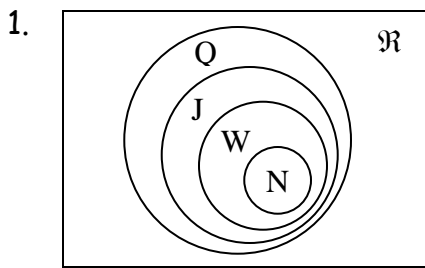


Answers Algebra I Problem Set 1



7. True

8. True

9. False. Multiples of 5 are a subset of the whole numbers.

10. True

11. False. $N \subset Q$

12. False. $J \subset \mathbb{R}$

13. $\{1, 2, 3, 4, \dots\}$

14. $\{\dots -3, -2, -1, 0, 1, 2, 3, \dots\}$

15. $\{0, 1, 2, 3, \dots\}$

16. 7 and 7

17. 5 and 5

18. 26 and 26

19. 0 and 0

20. 17.6 and 17.6

21. $2\frac{1}{3}$ and $2\frac{1}{3}$

22. 12

23. 16

24. 42

25. 15

26. 22

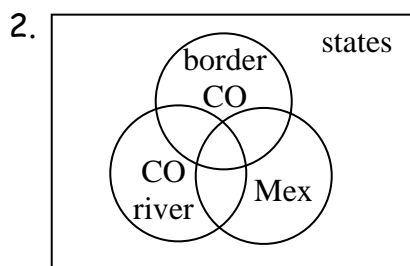
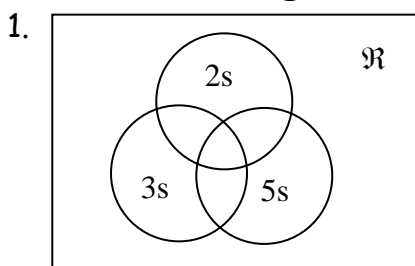
27. 74

28. 5

29. 7

30. 45

Answers Algebra I Problem Set 2



3. $\{\dots -3, -2, -1, 0, 1, 2, 3, \dots\}$

4. $\{3, 6, 9, 12, 15, \dots\}$

5. False
Multiples of 4 are a subset of multiples of 2.

6. False
 $W \subset J$

7. 6

8. -1

9. 2

10. -13

11. -15

12. 21

13. -1

14. 5

15. 9

16. -6

17. -8

18. -10

19. $b = 15$

20. $c = 17$

21. $d = -19$

22. $f = -8$

23. $g = 13$

24. $h = -20$

25. $j = -7$

26. $k = 7$

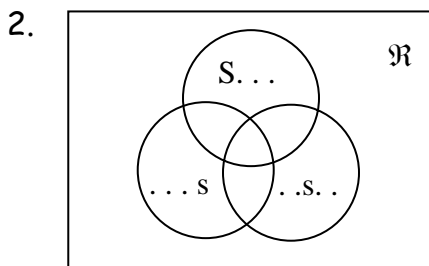
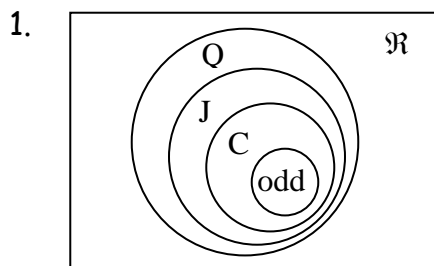
27. $m = -14$

28. $n = 6$

29. $p = -12$

30. $w = -23$

Answers Algebra I Problem Set 3



3. $\{6, 12, 18, 24, \dots\}$

4. $\{0, 1, 2, 3, \dots\}$

5. $\frac{17}{25}$

6. $\frac{9}{14}$

7. $\frac{7}{16}$

8. $\frac{11}{10} = 1\frac{1}{10}$

9. $-\frac{1}{15}$

10. $\frac{17}{15} = 1\frac{2}{15}$

11. $\frac{1}{12}$

12. $\frac{19}{70}$

13. $\frac{13}{30}$

14. $\frac{5}{36}$

15. $-\frac{1}{15}$

16. $\frac{13}{35}$

17. $-\frac{7}{12}$

18. $\frac{17}{28}$

19. $-\frac{5}{6}$

20. $\frac{3}{10}$

21. $-\frac{3}{40}$

22. $d = \frac{1}{4}$

23. $g = \frac{9}{10}$

24. $h = \frac{1}{6}$

25. $k = \frac{5}{8}$

26. $m = -\frac{5}{12}$

27. $x = \frac{11}{21}$

28. $AC = \frac{26}{35}$

29. $AB = \frac{7}{33}$

30. $BC = \frac{13}{40}$

Answers Algebra I Problem Set 4

1a) False, b) True, c) False, d) True, e) True

2. $3\frac{1}{24}$

3. $5\frac{19}{28}$

4. $4\frac{7}{15}$

5. $10\frac{5}{6}$

6. $4\frac{1}{12}$

7. $14\frac{17}{21}$

8. $6\frac{1}{8}$

9. $7\frac{4}{15}$

10. $1\frac{13}{21}$

11. $8\frac{11}{20}$

12. $3\frac{21}{40}$

13. $5\frac{19}{24}$

14. $2\frac{27}{44}$

15. $8\frac{7}{20}$

16. $3\frac{7}{10}$

17. $\frac{7}{12}$

18. $-\frac{1}{3}$

19. $\frac{4}{15}$

20. $-\frac{11}{15}$

21. -11

22. -6

23. 4

24. 17

25. -9

26. 3

27. 19

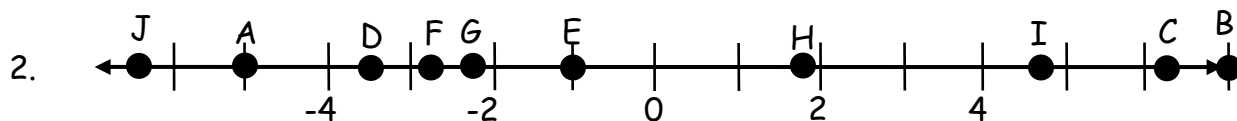
28. 0

29. $XZ = 5\frac{1}{14}$

30. $YZ = 3\frac{5}{6}$

Answers Algebra I Problem Set 5

1. $A = -6, B = -4.5, C = -4, D = -2.25, E = -0.75, F = 0.5, G = 1.8, H = 3, I = 4, J = 6$



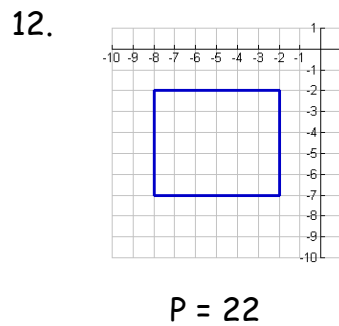
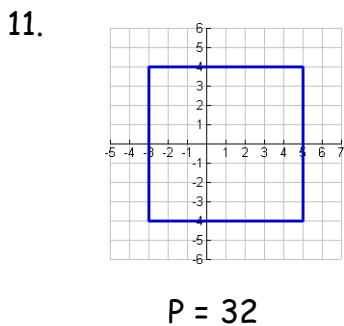
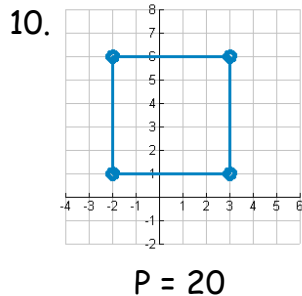
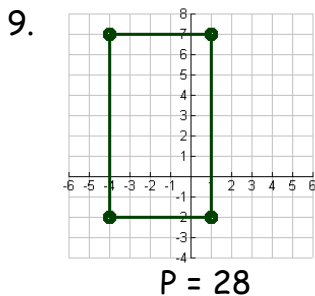
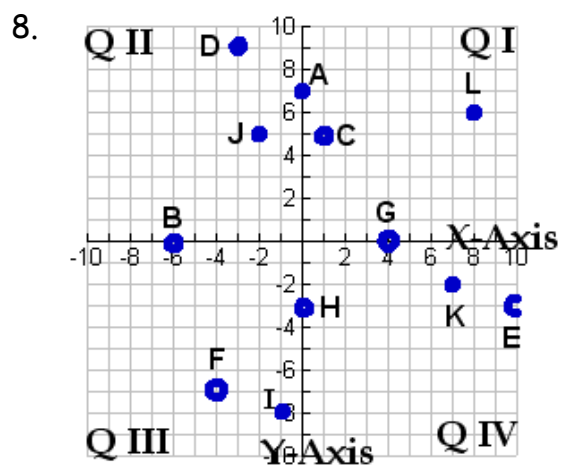
3. $XY = 6, YZ = 9, XZ = 15$

4. $XY = 9, YZ = 15, XZ = 24$

5. $XY = \frac{1}{20}, YZ = \frac{5}{12}, XZ = \frac{7}{15}$

6. $XY = 2\frac{1}{8}, YZ = 2\frac{1}{8}, XZ = 4\frac{1}{4}$

7. $A(5, 3), B(1, 6), C(-2, 7)$
 $D(-7, 6), E(-6, -1), F(-4, -7)$
 $G(0, -3), H(1, -6), J(3, -4)$
 $K(7, 0)$



13. $8\frac{35}{72}$

14. $2\frac{3}{4}$

15. $12\frac{11}{12}$

16. $-4\frac{11}{20}$

17. $x = 4\frac{13}{21}$

18. $w = 1\frac{7}{15}$

19. $g = 1\frac{1}{12}$

20. $b = -\frac{17}{24}$

21. 7

22. -13

23. 8

24. 3

25. -31

26. -800

27. $\{\dots -3, -2, -1, 0, 1, 2, 3, \dots\}$

28. $\{1, 2, 3, 4, \dots\}$

29. False Multiples of 9 are a subset of multiples of 3.

30. False The Rocky Mountain states are a subset of the states west of the Mississippi River.