Algebra 1 Name_____ ID: 1

Assignment

Date_____ Period____

Solve each proportion.

1) $\frac{4}{8} = \frac{n}{2}$

2) $\frac{3}{9} = \frac{b}{8}$

3) $\frac{6k}{3} = \frac{5}{9}$

4) $\frac{5}{2} = \frac{6}{x}$

5) $\frac{7}{8} = \frac{5}{n}$

6) $\frac{a}{2} = \frac{2}{4}$

7) $\frac{3}{4} = \frac{n}{9}$

8) $\frac{3}{10} = \frac{n}{2}$

9) $\frac{7}{8} = \frac{n}{5}$

10) $\frac{x}{3} = \frac{4}{2}$

11) $\frac{2}{v} = \frac{9}{10}$

12) $\frac{10}{8} = \frac{2}{x}$

13) $\frac{4}{v} = \frac{9}{6}$

14) $\frac{b}{3} = \frac{5}{10}$

15) $\frac{v}{2} = \frac{9}{4}$

16) $\frac{x}{9} = \frac{3}{2}$

17) $\frac{10}{7} = \frac{n}{2}$

18) $\frac{7}{x} = \frac{6}{7}$

19) $\frac{b}{10} = \frac{8}{5}$

20) $\frac{8}{4} = \frac{4}{10v}$

21) $\frac{7}{x-8} = \frac{4}{8}$

22) $\frac{7}{2} = \frac{4}{n+2}$

23) $\frac{3}{4} = \frac{x-6}{8}$

24) $\frac{3}{6} = \frac{9}{p-7}$

25) $\frac{a+6}{2} = \frac{2}{4}$

26) $\frac{x-3}{7} = \frac{10}{4}$

27) $\frac{7}{3} = \frac{9}{r-7}$

28) $\frac{3}{2} = \frac{n-8}{5}$

29) $\frac{6}{8} = \frac{4}{m-6}$

30) $\frac{3}{8} = \frac{6}{a-1}$

31) $\frac{n+4}{2} = \frac{10}{7}$

32) $\frac{8}{10} = \frac{7}{p+8}$

33) $\frac{4}{n+2} = \frac{10}{2}$

34) $\frac{10}{9} = \frac{7}{n+10}$

35) $\frac{5}{2} = \frac{4}{k+10}$

36) $\frac{10}{7} = \frac{r-3}{10}$

37) $\frac{5}{2} = \frac{x+4}{6}$

38) $\frac{5}{4} = \frac{n-4}{3}$

39) $\frac{7}{x+9} = \frac{4}{10}$

40) $\frac{3}{8} = \frac{2}{n+9}$

41) $\frac{4}{p} = \frac{5}{p-4}$

42) $\frac{x}{x-10} = \frac{5}{6}$

43) $\frac{9}{x+6} = \frac{2}{x}$

44) $\frac{v}{v+1} = \frac{4}{10}$

45) $\frac{x-4}{2} = \frac{x}{3}$

46) $\frac{6}{3} = \frac{a-4}{a}$

47) $\frac{x-1}{x} = \frac{5}{6}$

48) $\frac{8}{x-9} = \frac{6}{x}$

49) $\frac{5}{p-10} = \frac{9}{5p}$

50) $\frac{6}{2} = \frac{x+5}{x}$

51) $\frac{p-7}{10} = \frac{p}{4}$

52) $\frac{7}{k} = \frac{4}{k-2}$

53) $\frac{x+1}{9} = \frac{x}{8}$

54) $\frac{5}{x-7} = \frac{9}{x}$

55) $\frac{3}{8} = \frac{x+9}{x}$

56) $\frac{x}{8} = \frac{x+9}{9}$

57) $\frac{n+3}{7} = \frac{n}{4}$

58) $\frac{4}{x} = \frac{10}{x-9}$

59) $\frac{x-5}{8} = \frac{x}{5}$

60) $\frac{10}{v+9} = \frac{7}{v}$

61) $\frac{b+3}{b+8} = \frac{2}{4}$

62) $\frac{r+4}{r+6} = \frac{7}{8}$

63) $\frac{v+9}{v-8} = \frac{9}{6}$

64) $\frac{k+9}{7} = \frac{k+10}{3}$

65) $\frac{r-4}{r-8} = \frac{10}{9}$

66) $\frac{2}{6} = \frac{p+5}{p-5}$

67) $\frac{7}{v+6} = \frac{5}{v+8}$

68) $\frac{n+10}{10} = \frac{n-8}{7}$

69) $\frac{x-7}{x-8} = \frac{7}{3}$

70) $\frac{8}{x+4} = \frac{9}{x+7}$

71) $\frac{4}{p+10} = \frac{9}{p-10}$

72) $\frac{9}{n-2} = \frac{8}{n-3}$

73) $\frac{2}{4} = \frac{n+8}{n-8}$

74) $\frac{x-6}{x-1} = \frac{9}{4}$

75) $\frac{r-7}{r-2} = \frac{2}{10}$

76) $\frac{3}{6} = \frac{r-6}{r-5}$

77) $\frac{p+7}{3} = \frac{p+7}{4}$

78) $\frac{10}{r-8} = \frac{7}{r-7}$

79) $\frac{m+4}{m-7} = \frac{5}{2}$

80) $\frac{n+3}{n+4} = \frac{2}{3}$

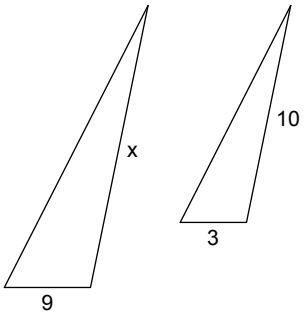
Algebra 1 Name_____ ID: 1

Assignment

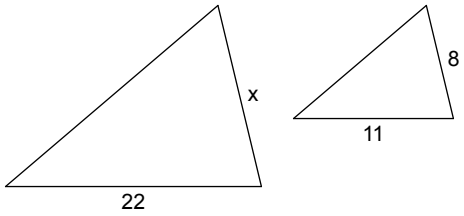
Date_____ Period____

Each pair of figures is similar. Find the missing side.

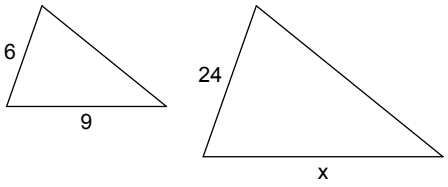
1)



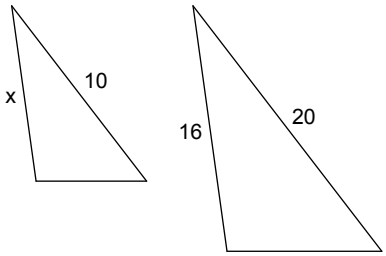
2)



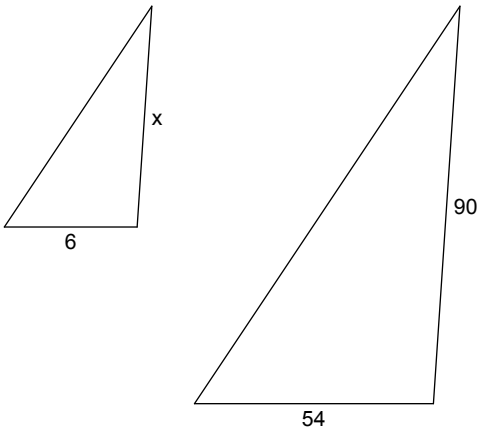
3)



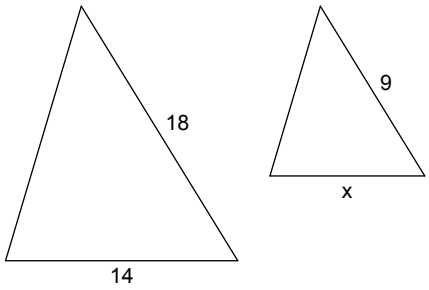
4)



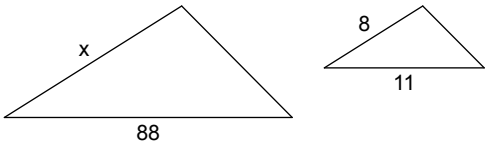
5)



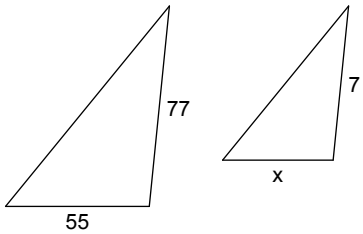
6)



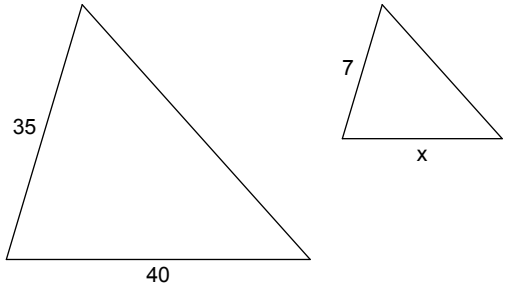
7)



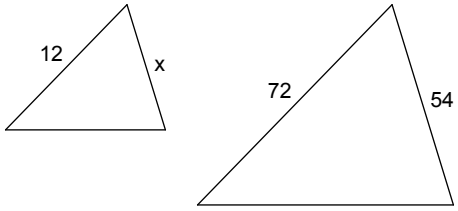
8)



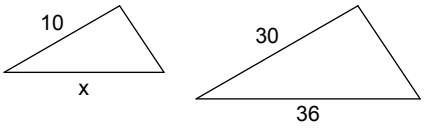
9)



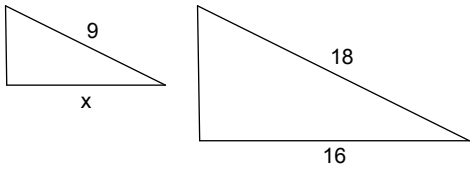
10)



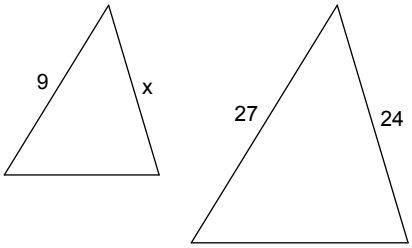
11)



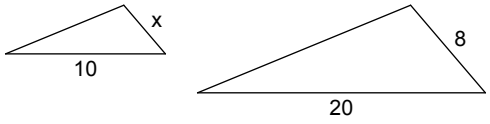
12)



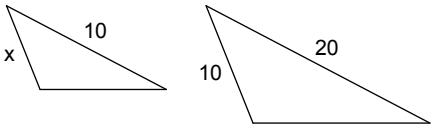
13)



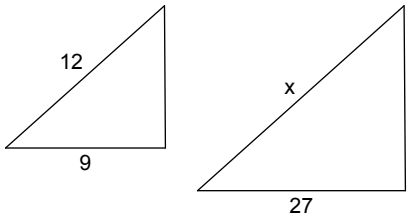
14)



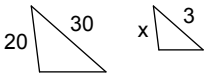
15)



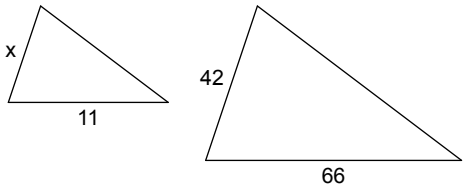
16)



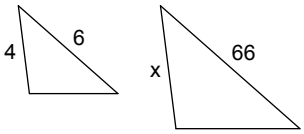
17)



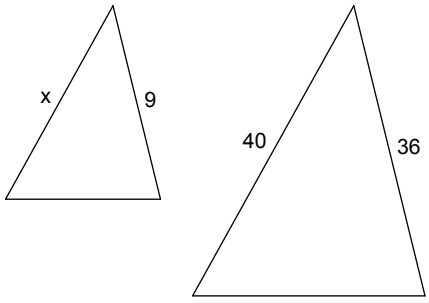
18)



19)



20)



Algebra 1 Name_____ ID: 1

Assignment

Date_____ Period____

Solve each proportion.

1) $\frac{4}{8} = \frac{n}{2}$
$\{1\}$

2) $\frac{3}{9} = \frac{b}{8}$ $\left\{\frac{8}{3}\right\}$

3) $\frac{6k}{3} = \frac{5}{9}$ $\left\{\frac{5}{18}\right\}$

4) $\frac{5}{2} = \frac{6}{x}$ $\left\{\frac{12}{5}\right\}$

5) $\frac{7}{8} = \frac{5}{n}$ $\left\{\frac{40}{7}\right\}$

6) $\frac{a}{2} = \frac{2}{4}$
$\{1\}$

7) $\frac{3}{4} = \frac{n}{9}$ $\left\{\frac{27}{4}\right\}$

8) $\frac{3}{10} = \frac{n}{2}$ $\left\{\frac{3}{5}\right\}$

9) $\frac{7}{8} = \frac{n}{5}$ $\left\{\frac{35}{8}\right\}$

10) $\frac{x}{3} = \frac{4}{2}$
$\{6\}$

11) $\frac{2}{v} = \frac{9}{10}$ $\left\{\frac{20}{9}\right\}$

12) $\frac{10}{8} = \frac{2}{x}$ $\left\{\frac{8}{5}\right\}$

13) $\frac{4}{v} = \frac{9}{6}$ $\left\{\frac{8}{3}\right\}$

14) $\frac{b}{3} = \frac{5}{10}$ $\left\{\frac{3}{2}\right\}$

15) $\frac{v}{2} = \frac{9}{4}$ $\left\{\frac{9}{2}\right\}$

16) $\frac{x}{9} = \frac{3}{2}$ $\left\{\frac{27}{2}\right\}$

17) $\frac{10}{7} = \frac{n}{2}$ $\left\{\frac{20}{7}\right\}$

18) $\frac{7}{x} = \frac{6}{7}$ $\left\{\frac{49}{6}\right\}$

19) $\frac{b}{10} = \frac{8}{5}$
$\{16\}$

20) $\frac{8}{4} = \frac{4}{10v}$ $\left\{\frac{1}{5}\right\}$

21) $\frac{7}{x-8} = \frac{4}{8}$
$\{22\}$

22) $\frac{7}{2} = \frac{4}{n+2}$ $\left\{-\frac{6}{7}\right\}$

23) $\frac{3}{4} = \frac{x-6}{8}$

$\{12\}$

24) $\frac{3}{6} = \frac{9}{p-7}$

$\{25\}$

25) $\frac{a+6}{2} = \frac{2}{4}$

$\{-5\}$

26) $\frac{x-3}{7} = \frac{10}{4}$ $\left\{\frac{41}{2}\right\}$

27) $\frac{7}{3} = \frac{9}{r-7}$ $\left\{\frac{76}{7}\right\}$

28) $\frac{3}{2} = \frac{n-8}{5}$ $\left\{\frac{31}{2}\right\}$

29) $\frac{6}{8} = \frac{4}{m-6}$ $\left\{\frac{34}{3}\right\}$

30) $\frac{3}{8} = \frac{6}{a-1}$

$\{17\}$

31) $\frac{n+4}{2} = \frac{10}{7}$ $\left\{-\frac{8}{7}\right\}$

32) $\frac{8}{10} = \frac{7}{p+8}$ $\left\{\frac{3}{4}\right\}$

33) $\frac{4}{n+2} = \frac{10}{2}$ $\left\{-\frac{6}{5}\right\}$

34) $\frac{10}{9} = \frac{7}{n+10}$ $\left\{-\frac{37}{10}\right\}$

35) $\frac{5}{2} = \frac{4}{k+10}$ $\left\{-\frac{42}{5}\right\}$

36) $\frac{10}{7} = \frac{r-3}{10}$ $\left\{\frac{121}{7}\right\}$

37) $\frac{5}{2} = \frac{x+4}{6}$

$\{11\}$

38) $\frac{5}{4} = \frac{n-4}{3}$ $\left\{\frac{31}{4}\right\}$

39) $\frac{7}{x+9} = \frac{4}{10}$ $\left\{\frac{17}{2}\right\}$

40) $\frac{3}{8} = \frac{2}{n+9}$ $\left\{-\frac{11}{3}\right\}$

41) $\frac{4}{p} = \frac{5}{p-4}$

$\{-16\}$

42) $\frac{x}{x-10} = \frac{5}{6}$

$\{-50\}$

43) $\frac{9}{x+6} = \frac{2}{x}$ $\left\{\frac{12}{7}\right\}$

44) $\frac{v}{v+1} = \frac{4}{10}$ $\left\{\frac{2}{3}\right\}$

45) $\frac{x-4}{2} = \frac{x}{3}$

$\{12\}$

46) $\frac{6}{3} = \frac{a-4}{a}$

$\{-4\}$

47) $\frac{x-1}{x} = \frac{5}{6}$

$\{6\}$

48) $\frac{8}{x-9} = \frac{6}{x}$

$\{-27\}$

49) $\frac{5}{p-10} = \frac{9}{5p}$ $\left\{-\frac{45}{8}\right\}$

50) $\frac{6}{2} = \frac{x+5}{x}$ $\left\{\frac{5}{2}\right\}$

51) $\frac{p-7}{10} = \frac{p}{4}$ $\left\{-\frac{14}{3}\right\}$

52) $\frac{7}{k} = \frac{4}{k-2}$ $\left\{\frac{14}{3}\right\}$

53) $\frac{x+1}{9} = \frac{x}{8}$
$\{8\}$

54) $\frac{5}{x-7} = \frac{9}{x}$ $\left\{\frac{63}{4}\right\}$

55) $\frac{3}{8} = \frac{x+9}{x}$ $\left\{-\frac{72}{5}\right\}$

56) $\frac{x}{8} = \frac{x+9}{9}$
$\{72\}$

57) $\frac{n+3}{7} = \frac{n}{4}$
$\{4\}$

58) $\frac{4}{x} = \frac{10}{x-9}$
$\{-6\}$

59) $\frac{x-5}{8} = \frac{x}{5}$ $\left\{-\frac{25}{3}\right\}$

60) $\frac{10}{v+9} = \frac{7}{v}$
$\{21\}$

61) $\frac{b+3}{b+8} = \frac{2}{4}$
$\{2\}$

62) $\frac{r+4}{r+6} = \frac{7}{8}$
$\{10\}$

63) $\frac{v+9}{v-8} = \frac{9}{6}$
$\{42\}$

64) $\frac{k+9}{7} = \frac{k+10}{3}$ $\left\{-\frac{43}{4}\right\}$

65) $\frac{r-4}{r-8} = \frac{10}{9}$
$\{44\}$

66) $\frac{2}{6} = \frac{p+5}{p-5}$
$\{-10\}$

67) $\frac{7}{v+6} = \frac{5}{v+8}$
$\{-13\}$

68) $\frac{n+10}{10} = \frac{n-8}{7}$
$\{50\}$

69) $\frac{x-7}{x-8} = \frac{7}{3}$ $\left\{\frac{35}{4}\right\}$

70) $\frac{8}{x+4} = \frac{9}{x+7}$
$\{20\}$

71) $\frac{4}{p+10} = \frac{9}{p-10}$
$\{-26\}$

72) $\frac{9}{n-2} = \frac{8}{n-3}$
$\{11\}$

73) $\frac{2}{4} = \frac{n+8}{n-8}$
$\{-24\}$

74) $\frac{x-6}{x-1} = \frac{9}{4}$
$\{-3\}$

75) $\frac{r-7}{r-2} = \frac{2}{10}$ $\left\{\frac{33}{4}\right\}$

76) $\frac{3}{6} = \frac{r-6}{r-5}$

$\{7\}$

77) $\frac{p+7}{3} = \frac{p+7}{4}$

$\{-7\}$

78) $\frac{10}{r-8} = \frac{7}{r-7}$ $\left\{\frac{14}{3}\right\}$

79) $\frac{m+4}{m-7} = \frac{5}{2}$ $\left\{\frac{43}{3}\right\}$

80) $\frac{n+3}{n+4} = \frac{2}{3}$

$\{-1\}$

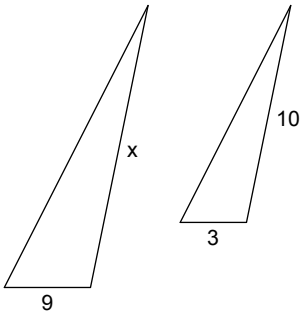
Algebra 1 Name_____ ID: 1

Assignment

Date_____ Period____

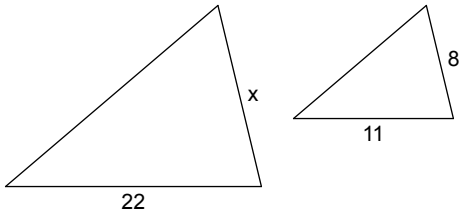
Each pair of figures is similar. Find the missing side.

1)



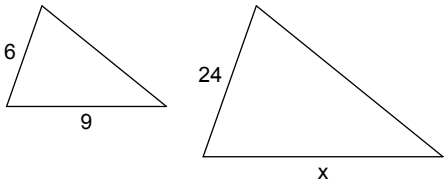
30

2)



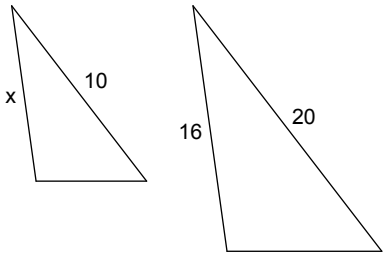
16

3)



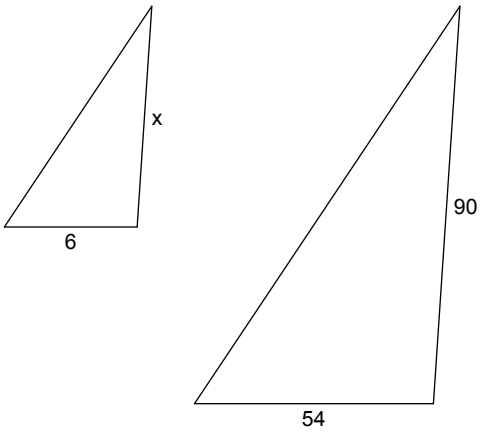
36

4)



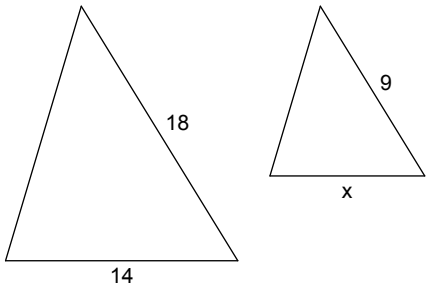
8

5)



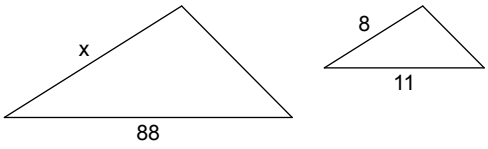
10

6)



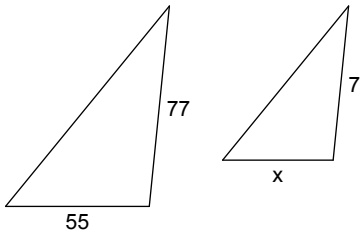
7

7)



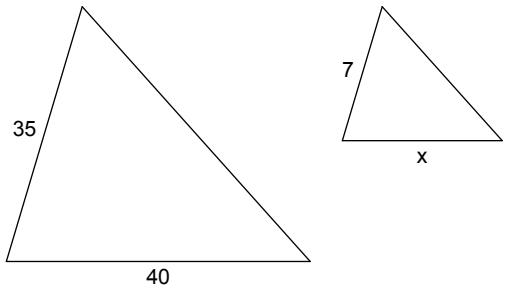
64

8)



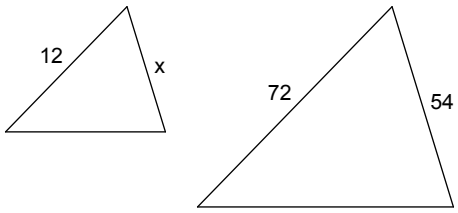
5

9)



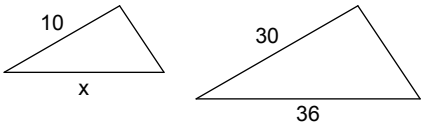
8

10)



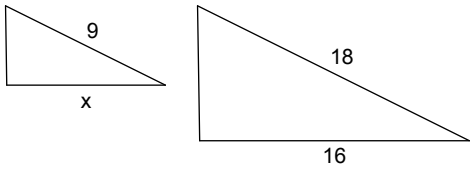
9

11)



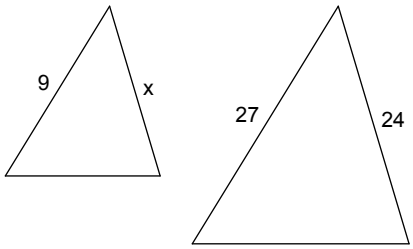
12

12)



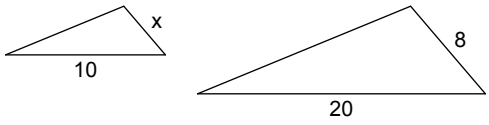
8

13)



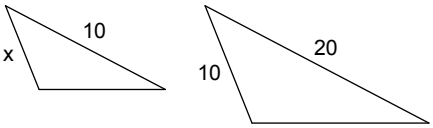
8

14)



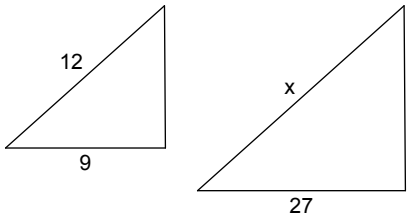
4

15)



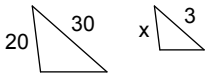
5

16)



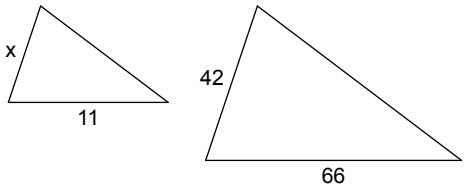
36

17)



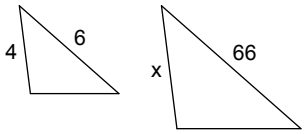
2

18)



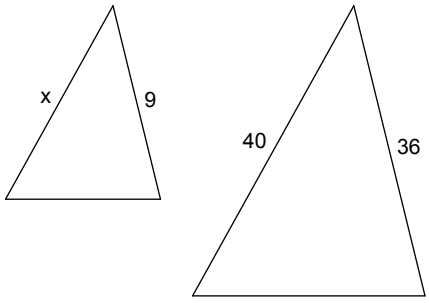
7

19)



44

20)



10