

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each problem.**

- 1) 86 is what percent of 35?
- 2) 93 is what percent of 158?
- 3) 99 is 98% of what?
- 4) What is 112% of 9?
- 5) 40% of what is 17.3?
- 6) 77% of 25 is what?
- 7) 115 is 84% of what?
- 8) What percent of 151 is 122?
- 9) What is 95% of 147?
- 10) 11 is 42% of what?
- 11) What is 48% of 92?
- 12) 50 is what percent of 123?
- 13) 97% of what is 120?
- 14) What is 64% of 112?
- 15) 5% of what is 158?
- 16) 14% of 9 is what?
- 17) 5% of 95 is what?
- 18) 63% of 18 is what?
- 19) 144 is 400% of what?
- 20) What percent of 61 is 109?
- 21) What percent of 147 is 141?
- 22) 81 is what percent of 115?
- 23) 4% of 61 is what?
- 24) 18 is 85% of what?
- 25) 13% of what is 157?
- 26) 99% of 61 is what?
- 27) What percent of 112 is 66.8?
- 28) 19% of 60 is what?
- 29) 380% of 17.6 is what?
- 30) 102 is what percent of 160?
- 31) What percent of 130 is 94?
- 32) 54 is what percent of 135?
- 33) 74 is 92% of what?
- 34) What percent of 54 is 120?

- 35) What percent of 16 is 119?
- 37) 37% of what is 63?
- 39) What is 36% of 40?
- 41) What percent of 122 is 131?
- 43) 49% of what is 91?
- 45) 123 is what percent of 111?
- 47) 2% of 77 is what?
- 49) 4% of what is 54.4?
- 51) What percent of 147 is 57?
- 53) 33 is 4% of what?
- 55) 76% of what is 141.8?
- 57) 52 is what percent of 54?
- 59) 77% of what is 108?
- 61) 51% of what is 156.6?
- 63) 67% of what is 117?
- 65) 9% of what is 151?
- 67) 2% of what is 7?
- 69) What percent of 122 is 94?
- 71) 58% of what is 86.3?
- 36) What percent of 106 is 47?
- 38) 69% of what is 16?
- 40) What percent of 72.8 is 15?
- 42) 12% of 103 is what?
- 44) 4% of 134 is what?
- 46) What is 20% of 19.3?
- 48) 36 is 5% of what?
- 50) What percent of 106 is 50?
- 52) 55% of what is 131?
- 54) What is 38% of 80?
- 56) 74% of what is 29.8?
- 58) 141 is 19% of what?
- 60) What percent of 84.5 is 74?
- 62) 100 is what percent of 103.7?
- 64) 135 is what percent of 87?
- 66) What percent of 102.4 is 5?
- 68) 69 is 40% of what?
- 70) 14% of what is 46?
- 72) What percent of 105 is 93?

73) 17% of 115 is what?

74) 60% of 12 is what?

75) 130% of 85 is what?

76) 104 is what percent of 45?

77) 76% of 33.2 is what?

78) 36% of 36 is what?

79) 30 is 42% of what?

80) 99% of 149.8 is what?

**Find each percent change. State if it is an increase or a decrease.**

81) From 21 to 66

82) From 74 to 21

83) From 38 to 17

84) From 79 to 100

85) From 93 to 82

86) From 82 to 14

87) From 35 to 48

88) From 66.4 to 36

89) From 87 to 31

90) From 82 to 18

91) From 55 to 41

92) From 78 to 63

93) From 22 to 26

94) From 87 to 77

95) From 93 to 33

96) From 12.9 to 28

97) From 69 to 9

98) From 10 to 3

99) From 97 to 49

100) From 59 to 53

101) From 87 to 34

102) From 91 to 67

103) From 68 to 94

104) From 24.6 to 30

105) From 48 to 45

106) From 62 to 49

107) From 40 to 95.2

108) From 19 to 22

109) From 68 to 37

110) From 50 to 87

111) From 79 to 39

112) From 52 to 29.8

113) From 38 to 42

114) From 38 to 71.3

115) From 92.3 to 62

116) From 24 to 12

117) From 86 to 24

118) From 95 to 10

119) From 25 to 29

120) From 49 to 63

121) From 56 to 53

122) From 55 to 53

123) From 81 to 73

124) From 51 to 37

125) From 56 to 96

126) From 89 to 98

127) From 23 to 100

128) From 23 to 19

129) From 47 to 15

130) From 87 to 5

131) From 73 to 7

132) From 45 to 9

133) From 37 to 54

134) From 54 to 85

135) From 77 to 41

136) From 52 to 50

137) From 25 to 33

138) From 59 to 49

139) From 58 to 86

140) From 89 to 75

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each problem.**

1) 86 is what percent of 35?

245.7%

3) 99 is 98% of what?

101

5) 40% of what is 17.3?

43.3

7) 115 is 84% of what?

136.9

9) What is 95% of 147?

139.7

11) What is 48% of 92?

44.2

13) 97% of what is 120?

123.7

15) 5% of what is 158?

3160

17) 5% of 95 is what?

4.8

19) 144 is 400% of what?

36

21) What percent of 147 is 141?

95.9%

23) 4% of 61 is what?

2.4

25) 13% of what is 157?

1207.7

27) What percent of 112 is 66.8?

59.6%

29) 380% of 17.6 is what?

66.9

31) What percent of 130 is 94?

72.3%

33) 74 is 92% of what?

80.4

2) 93 is what percent of 158?

58.9%

4) What is 112% of 9?

10.1

6) 77% of 25 is what?

19.3

8) What percent of 151 is 122?

80.8%

10) 11 is 42% of what?

26.2

12) 50 is what percent of 123?

40.7%

14) What is 64% of 112?

71.7

16) 14% of 9 is what?

1.26

18) 63% of 18 is what?

11.3

20) What percent of 61 is 109?

178.7%

22) 81 is what percent of 115?

70.4%

24) 18 is 85% of what?

21.2

26) 99% of 61 is what?

60.4

28) 19% of 60 is what?

11.4

30) 102 is what percent of 160?

63.8%

32) 54 is what percent of 135?

40%

34) What percent of 54 is 120?

222.2%

- 35) What percent of 16 is 119?  
743.8%
- 37) 37% of what is 63?  
170.3
- 39) What is 36% of 40?  
14.4
- 41) What percent of 122 is 131?  
107.4%
- 43) 49% of what is 91?  
185.7
- 45) 123 is what percent of 111?  
110.8%
- 47) 2% of 77 is what?  
1.54
- 49) 4% of what is 54.4?  
1360
- 51) What percent of 147 is 57?  
38.8%
- 53) 33 is 4% of what?  
825
- 55) 76% of what is 141.8?  
186.6
- 57) 52 is what percent of 54?  
96.3%
- 59) 77% of what is 108?  
140.3
- 61) 51% of what is 156.6?  
307.1
- 63) 67% of what is 117?  
174.6
- 65) 9% of what is 151?  
1677.8
- 67) 2% of what is 7?  
350
- 69) What percent of 122 is 94?  
77%
- 71) 58% of what is 86.3?  
148.8
- 36) What percent of 106 is 47?  
44.3%
- 38) 69% of what is 16?  
23.2
- 40) What percent of 72.8 is 15?  
20.6%
- 42) 12% of 103 is what?  
12.4
- 44) 4% of 134 is what?  
5.4
- 46) What is 20% of 19.3?  
3.9
- 48) 36 is 5% of what?  
720
- 50) What percent of 106 is 50?  
47.2%
- 52) 55% of what is 131?  
238.2
- 54) What is 38% of 80?  
30.4
- 56) 74% of what is 29.8?  
40.3
- 58) 141 is 19% of what?  
742.1
- 60) What percent of 84.5 is 74?  
87.6%
- 62) 100 is what percent of 103.7?  
96.4%
- 64) 135 is what percent of 87?  
155.2%
- 66) What percent of 102.4 is 5?  
4.9%
- 68) 69 is 40% of what?  
172.5
- 70) 14% of what is 46?  
328.6
- 72) What percent of 105 is 93?  
88.6%

73) 17% of 115 is what?

19.6

75) 130% of 85 is what?

110.5

77) 76% of 33.2 is what?

25.2

79) 30 is 42% of what?

71.4

74) 60% of 12 is what?

7.2

76) 104 is what percent of 45?

231.1%

78) 36% of 36 is what?

13

80) 99% of 149.8 is what?

148.3

**Find each percent change. State if it is an increase or a decrease.**

81) From 21 to 66

214.3% increase

83) From 38 to 17

55.3% decrease

85) From 93 to 82

11.8% decrease

87) From 35 to 48

37.1% increase

89) From 87 to 31

64.4% decrease

91) From 55 to 41

25.5% decrease

93) From 22 to 26

18.2% increase

95) From 93 to 33

64.5% decrease

97) From 69 to 9

87% decrease

99) From 97 to 49

49.5% decrease

101) From 87 to 34

60.9% decrease

103) From 68 to 94

38.2% increase

105) From 48 to 45

6.3% decrease

107) From 40 to 95.2

138% increase

109) From 68 to 37

45.6% decrease

82) From 74 to 21

71.6% decrease

84) From 79 to 100

26.6% increase

86) From 82 to 14

82.9% decrease

88) From 66.4 to 36

45.8% decrease

90) From 82 to 18

78% decrease

92) From 78 to 63

19.2% decrease

94) From 87 to 77

11.5% decrease

96) From 12.9 to 28

117.1% increase

98) From 10 to 3

70% decrease

100) From 59 to 53

10.2% decrease

102) From 91 to 67

26.4% decrease

104) From 24.6 to 30

22% increase

106) From 62 to 49

21% decrease

108) From 19 to 22

15.8% increase

110) From 50 to 87

74% increase

- 111) From 79 to 39  
50.6% decrease
- 113) From 38 to 42  
10.5% increase
- 115) From 92.3 to 62  
32.8% decrease
- 117) From 86 to 24  
72.1% decrease
- 119) From 25 to 29  
16% increase
- 121) From 56 to 53  
5.4% decrease
- 123) From 81 to 73  
9.9% decrease
- 125) From 56 to 96  
71.4% increase
- 127) From 23 to 100  
334.8% increase
- 129) From 47 to 15  
68.1% decrease
- 131) From 73 to 7  
90.4% decrease
- 133) From 37 to 54  
45.9% increase
- 135) From 77 to 41  
46.8% decrease
- 137) From 25 to 33  
32% increase
- 139) From 58 to 86  
48.3% increase
- 112) From 52 to 29.8  
42.7% decrease
- 114) From 38 to 71.3  
87.6% increase
- 116) From 24 to 12  
50% decrease
- 118) From 95 to 10  
89.5% decrease
- 120) From 49 to 63  
28.6% increase
- 122) From 55 to 53  
3.6% decrease
- 124) From 51 to 37  
27.5% decrease
- 126) From 89 to 98  
10.1% increase
- 128) From 23 to 19  
17.4% decrease
- 130) From 87 to 5  
94.3% decrease
- 132) From 45 to 9  
80% decrease
- 134) From 54 to 85  
57.4% increase
- 136) From 52 to 50  
3.8% decrease
- 138) From 59 to 49  
16.9% decrease
- 140) From 89 to 75  
15.7% decrease