Warm Up Grade 8
Date: _____

BEFORE QUIZ

1) Use mental math to calculate the following (show work)

a) 75 % of 128

25% of 128 = 3 2
×3 ×3
75% of 128 = 96

b) 80% of 16

10% of 16 = 1.6
×8 ×8
80% of 16 = 12.8

c) 15% of 90

10% of 90 = 9
÷2 ÷2
+ 5% of 90 = 4.5
15% of 90 = 13.5

2) Complete the chart (Always leave fraction in lowest terms)

	Fraction	Decimal	Percent
a	$\frac{17}{20} \times 5 = \frac{85}{100}$	0.85	85%
b	$\frac{2}{100} = \frac{1}{50}$	0.02	2%
c	$\frac{14}{100} = \frac{7}{50}$	0.14	14%
d	$\frac{72}{10000} = \frac{36}{5000} = \frac{18}{2500} = \frac{9}{1250}$	0.0072	0.72%

17 × 5 = 85

10 × 5 = 50
7 × 5 = 35
85

×100

Warm Up Grade 8

Date: _____

BEFORE QUIZ

1) Use mental math to calculate the following (show work)

a) 75 % of 128

25% of 128 = 32 (like 128 ÷ 4)

×3 ×3

75% of 128 = 96

b) 80% of 16

10% of 16 = 1.6

×5 ×8

80% of 16 = 13.4

c) 15% of 90

10% of 90 = 9 ÷2

5% of 90 = 4.5 ÷2

15% of 90 = 13.5

2) Complete the chart (Always leave fraction in lowest terms)

	Fraction	Decimal	Percent
a	$\frac{17}{20} \times\frac{5}{5} = \frac{85}{100}$	0.85	85%
b	$\frac{2}{100} = \frac{1}{50}$	0.02	2%
c	$\frac{14}{100} = \frac{7}{50}$	0.14	14%
d	$\frac{72}{10000} = \frac{36}{5000} = \frac{18}{2500} = \frac{9}{1250}$	0.0072	0.72

(d: 0.0072 — 4 places left; ×100 to Decimal; ×100 to Percent)

75% of 128

15

10% of 128 = 12.8

÷2 ×7 ×7 ÷2

70% of 128 = 89.6

+5% of 128 = 6.4

75% of 128 = 96.0

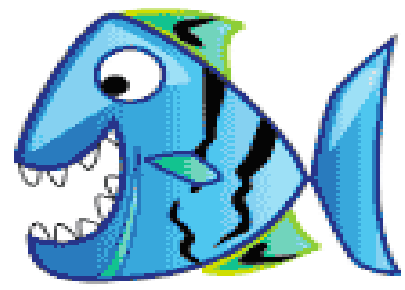
Worksheet

also on next 4 pages

Percentage of a Number

Name: Solutions Score: _____

Calculate and round off to the nearest hundredth.



27% of 120
0.27 x 120
30.4

32% of 163
0.32 x 163
52.16

2.1% of 251
0.021 x 251
5.271

16% of 29
0.16 x 29
4.64

76% of 322
0.76 x 322
244.72

8.5% of 145
0.085 x 145
12.325

31% of 199
0.31 x 199
61.69

66% of 188
0.66 x 188
124.08

28% of 52
0.28 x 52
14.56

4.6% of 212
0.046 x 212
9.752

113% of 62
1.13 x 62
70.06

2.99% of 25
0.0299 x 25
0.7475

27% of 48
0.27 x 48
12.96

8.2% of 45
0.082 x 45
3.69

71% of 76
0.71 x 76
53.96

7.9% of 35
0.079 x 35
2.765

21% of 225
0.21 x 225
47.25

38% of 42
0.38 x 42
15.96

7.1% of 588
0.071 of 588
41.748

51% of 66
0.51 x 66
33.66

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Name: _____ Date: _____

Percentage of Number Worksheet

Calculate the percentages.

1 a. 150% of 50 1.5 x 50 75	**1 b.** 150% of 90 1.5 x 90 135
2 a. 100% of 60 1 x 60 60	**2 b.** 50% of 100 0.5 x 100 50
3 a. 350% of 70 3.5 x 70 245	**3 b.** 150% of 70 1.5 x 70 105
4 a. 350% of 50 3.5 x 50 175	**4 b.** 350% of 90 3.5 x 90 315
5 a. 450% of 100 4.5 x 100 125	**5 b.** 200% of 30 2 x 30 60
6 a. 250% of 50 2.5 x 50	**6 b.** 350% of 40 3.5 x 40
7 a. 350% of 80 3.5 x 80 280	**7 b.** 150% of 100 1.5 x 100 150
8 a. 400% of 80 4.0 x 80 = 320	**8 b.** 300% of 50 3.0 x 50 150

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Finding the Percent of a Number

With calculator

What does the term "of" mean in math?

"of" tells you to multiply.

To find the percent of a number, you change the percent to a decimal, then multiply.

Examples:
22% of 98
0.22 x 98
21.56

78% of 346
0.78 x 346

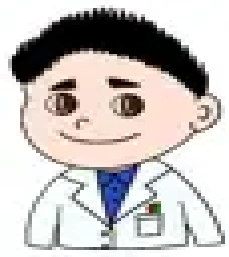
12.5% of 84
0.125 x 84

6% of 820

146% of 90
0.06 x 820

1.46 x 90
131.4

Name:_____



Percentage of a Number

Find the percentage of each number.

1. 20% of 60 = _____
2. 30% of 90 = _____
3. 15% of 60 = _____
4. 40% of 30 = _____
5. 24% of 50 = _____
6. 10% of 100 = _____
7. 50% of 50 = _____
8. 10% of 60 = _____
9. 77% of 100 = _____
10. 45% of 60 = _____
11. 35% of 40 = _____
12. 55% of 20 = _____
13. 40% of 90 = _____
14. 30% of 80 = _____
15. 40% of 50 = _____
16. 25% of 20 = _____
17. 20% of 50 = _____
18. 80% of 95 = _____
19. 55% of 40 = _____
20. 12% of 400 = _____

Slambo Resources

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What Percent? - Whole Percents

Name: _____ Score: _____

Calculate the percent numbers.



20 out of 100	15 out of 30	
25 out of 100	25 out of 125	25 out of 250
35 out of 140	15 out of 300	14 out of 280
17 out of 68	20 out of 20	55 out of 220
21 out of 300	25 out of 500	18 out of 36
72 out of 200	99 out of 198	45 out of 225
75 out of 500	60 out of 400	16 out of 200

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15% of number without a calculator WS

-Print page 3 only

If more is needed so page 1,2 with calculator