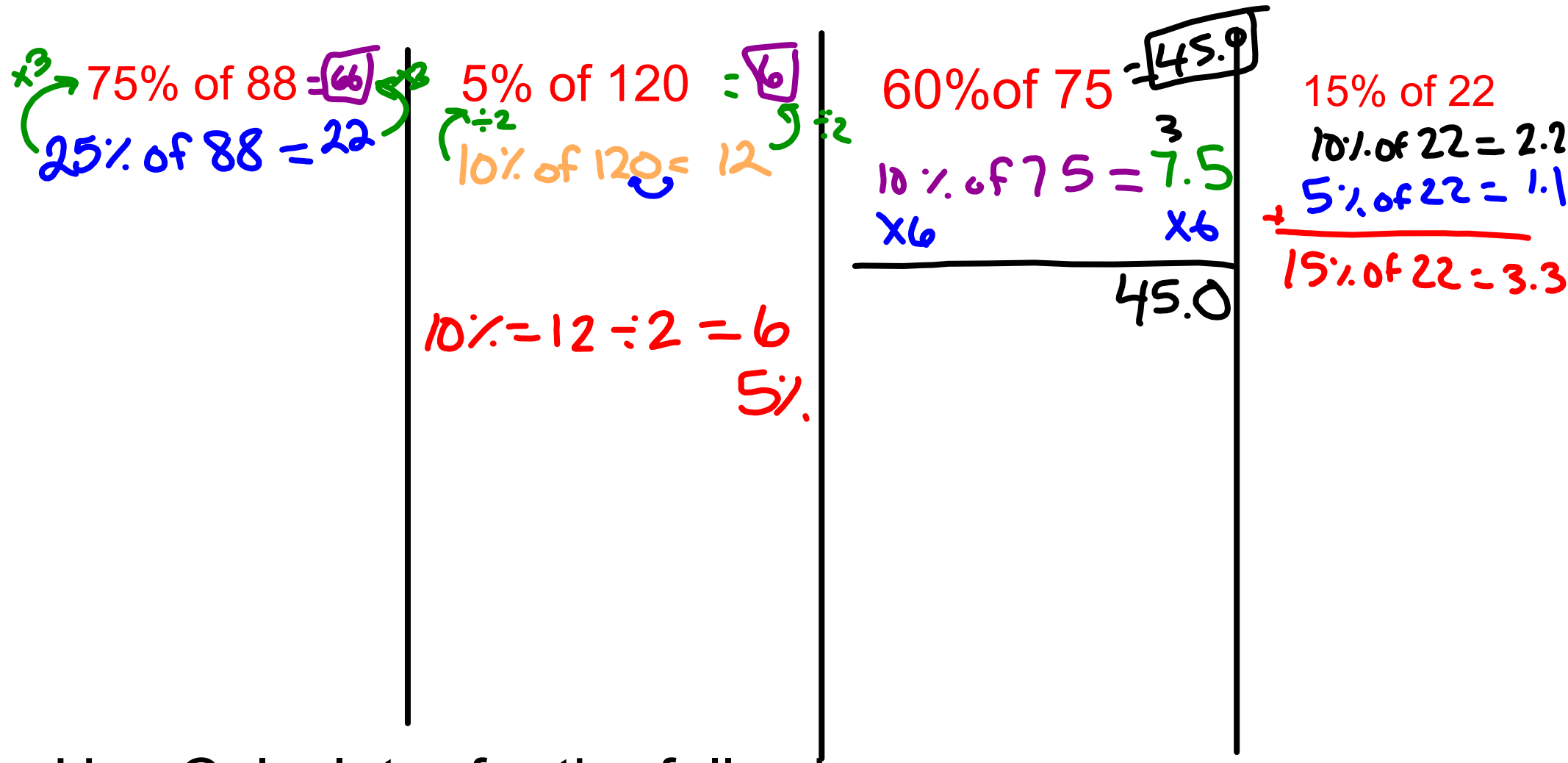


Warm Up Gr 8

Date: _____



Show work to calculate the following



Use Calculator for the following:

a) 77% of 968

÷100

0.77×968

$= 745.36$

b) 16.5 % of 450

÷100

$= 0.165 \times 450$

$= 74.25$

10% = 0.1 = $\frac{1}{10}$

~~10% = 12~~ ÷ 2 = 6 = 5%

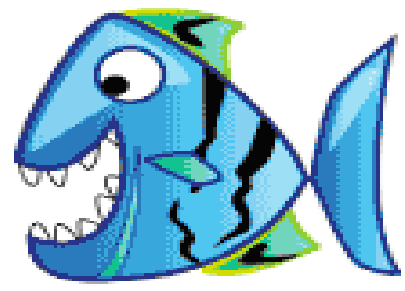
10% of 120 = 12

Worksheet SOLUTIONS also on next 4 pages

Percentage of a Number

Name: _____ Score: _____

Calculate and round off to the nearest hundredth.



27% of 120
0.27 x 120
= 32.4

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 x 588
= 41.748

51% of 66
0.51 x 66
= 33.66

SOLUTIONS

Name: _____ Date: _____

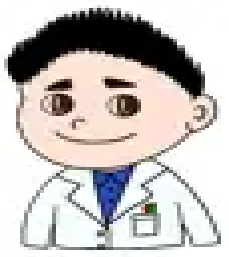
Percentage of Number Worksheet

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 1.00 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 = 31.5
5 a. 450% of 100 4.5 x 100 = 450	**5 b.** 200% of 30 2.0 x 30 = 60
6 a. 250% of 50 2.5 x 50 = 125	**6 b.** 350% of 40 3.5 x 40 = 140
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 4.00 x 80 = 320	**8 b.** 300% of 50 3.00 x 50 = 150

Name: SOLUTIONS

Percentage of a Number



Find the percentage of each number.

1. 20% of 60 = _____
   0.2 x 60 = 12

2. 30% of 90 = _____
   0.30 x 90 = 27

3. 15% of 60 = _____
   0.15 x 60 = 9

4. 40% of 30 = _____
   0.40 x 30 = 12

5. 24% of 50 = _____
   0.24 x 50 = 12

6. 10% of 100 = _____
   0.10 x 100 = 10

7. 50% of 50 = _____
   0.50 x 50 = 25

8. 10% of 60 = _____
   0.10 x 60 = 6

9. 77% of 100 = _____
   0.77 x 100 = 77

10. 45% of 60 = _____
    0.45 x 60 = 27

11. 35% of 40 = _____
    0.35 x 40 = 14

12. 55% of 20 = _____
    0.55 x 20 = 11

13. 40% of 90 = _____
    0.40 x 90 = 36

14. 30% of 80 = _____
    0.30 x 80 = 24

15. 40% of 50 = _____
    0.40 x 50 = 20

16. 25% of 20 = _____
    0.25 x 20 = 5

17. 20% of 50 = _____
    0.20 x 50 = 10

18. 80% of 95 = _____
    0.80 x 95 = 76

19. 55% of 40 = _____
    0.55 x 40 = 20

20. 12% of 400 = _____
    0.12 x 400 = 48

What Percent? - Whole Percents

Name: SOLUTIONS Score: _____

Calculate the percent numbers.



20 out of 100

20÷100 = 0.2 = 20%

15 out of 30

15÷30 = 0.5 = 50%

25 out of 100

25÷100 = 0.25

= 25%

25 out of 125

25÷125 = 0.20

= 20%

25 out of 250

25÷250 = 0.10

= 10%

35 out of 140

35÷140 = 0.25

= 25%

15 out of 300

15÷300 = 0.05

= 5%

14 out of 280

14÷280 = 0.05

= 5%

17 out of 68

17÷68 = 0.25

= 25%

20 out of 20

20÷20 = 1.0

= 100%

55 out of 220

55÷220 = 0.25

= 25%

21 out of 300

21÷300 = 0.07

= 7%

25 out of 500

25÷500 = 0.05

= 5%

18 out of 36

18÷36 = 0.5

= 50%

72 out of 200

72 ÷200 = 0.36

= 36%

99 out of 198

99 ÷198 = 0.50

= 50%

45 out of 225

45÷225 = 0.20

= 20%

75 out of 500

75 ÷500 = 0.15

= 15%

60 out of 400

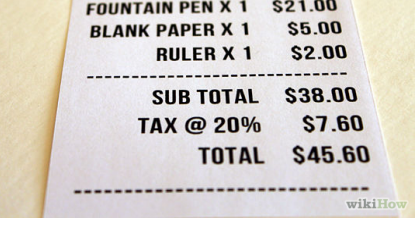
60 ÷400 = 0.15

= 15%

16 out of 200

16 ÷200 = 0.08

= 8%



Sales Tax and Total Cost



Sales tax is money that you pay to the government on almost everything that you buy.

In NB, we pay harmonized sales tax(HST) which is 15 %.

http://www.cra-arc.gc.ca/tx/bsnss/tpcs/gst-tps/rts-eng.html

Not all provinces are the same.

Province	GST and HST	PST
Alberta	5%	0%
British Columbia	5%	7%
Manitoba	5%	7%
New Brunswick	15%	N/A
Newfoundland and Labrador	15%	N/A
Northwest Territories	5%	0%
Nova Scotia	15%	N/A
Nunavut	5%	0%
Ontario	13%	N/A
Quebec	5%	9.975%
Prince Edward Island	15%	N/A
Saskatchewan	5%	6%
Yukon	5%	0%

3. Find the total cost of a stereo that sells for $229.99.

Tax = 13% of price
= 0.13 x 229.99
= 29.8987 or 29.90

Total Cost = Price + Tax
= 229.99 + 29.90
= $259.89

Homework Sheet #1,2

How to calculate Sales Tax

We pay sales tax on the price of the item, so to calculate the amount of sales tax, we take 15% of the price.

Step 1) To find the amount of sales tax calculate 15% of the Price (using our previous knowledge)

Step 2) To find the total cost including tax.

Total cost = Price of item + Tax

Example 1) **A sweater sells for $45.**

(a) find the amount of tax you have to pay.

=

Tax $ = 15% of $45

= 0.15 x 45

= $6.75

10% of 45 = $4.50

5% of 45 = +2.25

$ 6.75

(b) find the total cost of the sweater.

Cost w tax = Price + Tax $

= $45 + $6.75

5.85

= $51.75





Example 2)

Find the amount of tax and total cost of a book that cost $15.

10% of 15 = $1.50

5% of 15 = $0.75

15% of 15 = $2.25

(a) Tax $ = 15% of Price

= ↓ 0.15 × $15

= $2.25

b) Cost w Tax = Price + Tax $

= $15 + 2.25

= $17.25

Use Calculator → But show work.

Sales Tax Sheet

Tax $ = 15% of Price

0.15 x ____

*show all work on your own paper

1. Find the amount of sales tax required in NB, for the following items:
(a) a computer $1499 (b) A CD $18.97
(c) a book $ 24 (d) a coat $ 79.95

2. (A) Find the amount of sales tax you are required to pay in NB?
(B) Find the total cost of the items.
(a) a pair of sneakers $ 49.50 (b) a pair of gloves $ 12.39
(c) a TV $ 2457 (d) a calculator $ 15.65
(e) jeans $62.99 (f) skateboard $ 48.74
(g) skates $129.99 (h) a PSP game $ 249.99
(i) sweatshirt $39.99 (j) a DVD $25.87