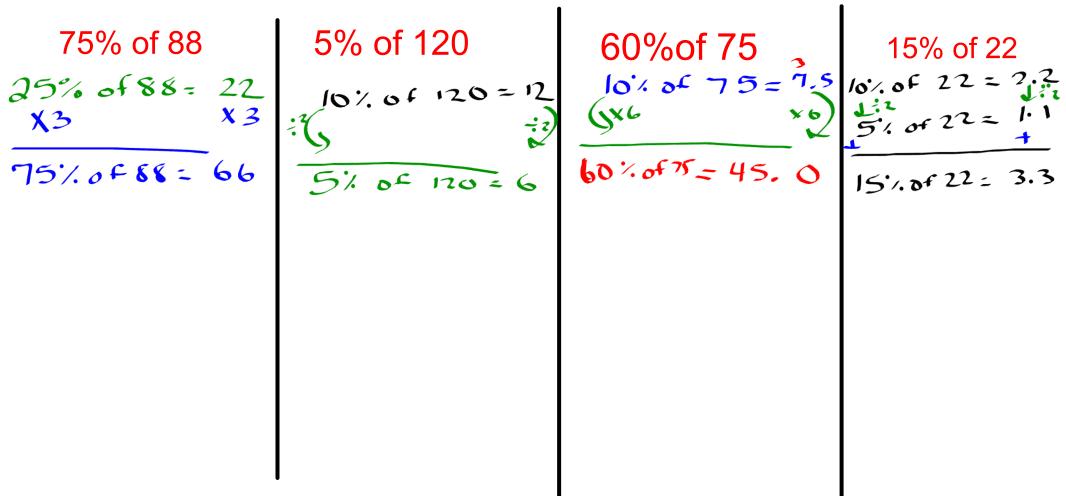


Warm Up Gr 8

Date: 04.20



Show work to calculate the following



Use Calculator for the following:

Worksheet

SOLUTION Solso 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

2.1% of 251 0.021 x 251

= 5.271

8.5% of 145 0.085 x 145

= 12.325

28% of 52 0.28 x 52

= 14.56

2.99% of 25 0.0299 x 25

= 0.7475

71% of 76 0.71 x 76

= 53.96

38% of 42 0.38 x 42

= 15.96

32% of 163 0.32 x 163

= 52.16

16% of 29 0.16 x 29

= 4.64

31% of 199 0.31 x 199

= 61.69

4.6% of 212 0.046 x 212

= 9.752

27% of 48 0.27 x 48

= 12.96

7.9% of 35 0.079 x 35

= 2.765

7.1% of 588 0.071 x 588

=41.748

76% of 322 0.76 x 322

= 244.72

66% of 188 0.66 x 188

= 124.08

113% of 62 1.13 x 62

= 70.06

8.2% of 45 0.082 x 45

= 3.69

21% of 225 0.21 x 225

= 47.25

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 b. 150% of 90 |
|---|--|
| 1.5 x 50 | 1.5 x 90 |
| = 75 | = 135 |
| 2 a. 100% of 60 | 2 b. 50% of 100 |
| 1.00 x 60 | 0.5 x 100 |
| = 60 | = 50 |
| 3 a. 350% of 70 | 3 b. 150% of 70 |
| 3.5 x 70 | 1.5 x 70 |
| = 245 | = 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 | 6 b. 350% of 40 |
| 2.5 x 50 | 3.5 x 40 |
| = 125 | = 140 |
| 7 a. 350% of 80 | 7 b. 150% of 100 |
| 3.5 x 80 | 1.5 x 100 |
| = 280 | = 150 |
| 8 a. 400% of 80 | 8 b. 300% of 50 |
| 4.00 x 80 | 3.00 x 50 |
| = 320 | = 150 |

Name: SOLUTIONS

Percentage of a Number



Find the percentage of each number.

What Percent? - Whole Percents

Name: SOLUTIONS Score:

Calculate the percent numbers.

20 out of 100

 $20 \div 100 = 0.2 = 20\%$

15 out of 30

 $15 \div 30 = 0.5 = 50\%$



25 out of 100 $25 \div 100 = 0.25$

= 25%

25 out of 125

 $25 \div 125 = 0.20$

= 20%

25 out of 250

 $25 \div 250 = 0.10$

= 10%

35 out of 140

 $35 \div 140 = 0.25$

= 25%

15 out of 300

 $15 \div 300 = 0.05$

= 5%

14 out of 280

 $14 \div 280 = 0.05$

= 5%

17 out of 68

 $17 \div 68 = 0.25$

= 25%

20 out of 20

 $20 \div 20 = 1.0$

= 100%

55 out of 220

 $55 \div 220 = 0.25$

= 25%

21 out of 300

 $21 \div 300 = 0.07$

= 7%

25 out of 500

 $25 \div 500 = 0.05$

= 5%

18 out of 36

 $18 \div 36 = 0.5$

= 50%

72 out of 200

 $72 \div 200 = 0.36$

= 36%

99 out of 198

 $99 \div 198 = 0.50$

= 50%

45 out of 225

 $45 \div 225 = 0.20$

= 20%

75 out of 500 $75 \div 500 = 0.15$

= 15%

60 out of 400

 $60 \div 400 = 0.15$

= 15%

16 out of 200

 $16 \div 200 = 0.08$

= 8%

FOUNTAIN PEN X 1 \$21.00 BLANK PAPER X 1 \$5.00 RULER X 1 \$2.00 SUB TOTAL \$38.00 TAX @ 20% \$7.60 TOTAL \$45.60

Sales Tax and Total Cost



Sales tax is money that you pay to the government on almost sep 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 brake shoes for a car that sells for \$229.99.

Tax\$ = 15% of price
$$= 0.15 \times 229.99$$
 $= 229.99 + 34.50$ $= 34.4985 \text{ or } 34.50$ $= 264.49

How to calculate Sales Tax

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

Step 1) To find the amount of sales tax calculate

Tax \$ = 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.

(b) find the total cost of the wearer.





Example 2)

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

Sales Tax Sheet paper Tax \$ = 15% of Pr:ce

*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 Shirt is \$18.97
- (c) a book \$ 24
- (d) a coat \$ 79.95
- 2. (I) Find the amount of sales tax you are required to pay in NB? (II) Find the total cost of the items.
 - (a) a pair-ofsireakers: \$49.50
 - (c) a TV \$ 2457
 - (e) jeans \$62.99
 - (g) skates \$129.99
 - (i) sweatshirt \$39.99

- (b) sa pair of gloves \$ 12.39 × B
 - (d) a calculator \$ 15.65
 - **(f) skateboard \$ 48.74**
 - (h) a video game \$ 249.99
 - (j) a DVD \$25.87

Sales Tax Sheet

*show all work on your own paper

Tax\$ = 15% x Pr:ce

- 1. Find the amount of sales tax required in NB, for the following items:
- (a) a computer \$1499 (b) A CD \$18.97
- 2. (A) Find the amount of sales pax 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