

Midterm Review 2018 - Units 1 & 2

Unit 1: #1-12

- 1) Seth earns \$14.95 per hour.
- What are his wages for 40 hours?
 - Estimate Seth's annual wages based on 50 work weeks.

$$a) 40 * 14.95 = \$598.00$$

$$b) 50 * 598 = \$29,900$$

- 3) Lydia has an Etsy shop and earns \$2.45 for every item that she sells. How much will she earn if she sells 87 items?

$$2.45 * 87 = \$213.15$$

- 5) Mercedes receives a 7% commission plus a salary of \$453 per week. If her total sales for one week are \$3,485, what are her total wages for that week?

$$3485 * .07 = 243.95$$

$$453 + 243.95 = \$696.95$$

- 7) Katelyn earns an annual salary of \$58,400. What is her weekly income (assume 52 weeks).

$$58,400 \div 52 =$$

$$\$1,123.08$$

- 2) Kayla earns 17.50 per hour plus time-and-a-half as overtime pay. If she works 48 hours one week, how much will she earn?

$$17.50 * 1.5 = 26.25 \text{ (OVERTIME RATE)}$$

$$40 * 17.50 = \$700$$

$$8 * 26.25 = \$210$$

$$700 + 210 = \$910$$

- 4) Ezra earns a biweekly salary of \$1,275.82. What is his annual salary?

$$52 \div 2 = 26$$

$$1,275.82 * 26 =$$

$$\$33,171.32$$

- 6) Arrion sells a car for \$47,200. How much does he earn from this sale with a 3.5% commission?

$$.035 * 47,200 = \$1,652$$

- 8) What is the annual salary for Murissa, who earns a weekly salary of \$492.60?

$$492.60 * 52 =$$

$$\$25,615.20$$

- 9) Deja, a waitress, earns \$3.50 per hour. One week she received these tips:

Mon: \$65 Thurs: \$85
 Tues: \$72 Fri: \$115
 Wed: \$68

If she worked a total of 30 hours that week, what were her total earnings for the week?

$$\text{TOTAL TIPS: } \$405$$

$$\$3.50 * 30 = \$105$$

$$405 + 105 = \boxed{\$510}$$

- 11) Jason's sales quota is \$7,000 and regular commission rate is 5%. His actual sales were \$12,500 with a bonus commission rate of 8%. He also earns a base salary of \$6.50 per hour. If he worked 40 hours, how much were his total wages for that week?

$$\$7000 * .05 = \text{\$350} \text{ REG. COMMISSION}$$

$$\$12500 - \$7000 = \$5500$$

$$5500 * .08 = \text{\$440} \text{ EXTRA COMMISSION}$$

$$6.50 * 40 = \text{\$260} \text{ HOURLY PAY}$$

$$350 + 440 + 260 = \boxed{\$1050}$$

Unit 2 #13-30

Find the unit price for each item.

- 13) If 9 cans of soup cost a total of \$12.30, how much does each can cost?

$$\frac{\text{COST}}{\# \text{ CANS}} = \frac{\$12.30}{9} = \boxed{\$1.37}$$

- 10) Shawn works as a bellhop in a hotel. One week, he earned \$400 in tips from his guests. If he worked for 43 hours that same week, earning a base pay of 8.50 per hour (and time-and-a-half overtime pay), what were his total wages for that week?

$$8.50 * 1.5 = \text{\$12.75} \text{ OVERTIME RATE}$$

$$40 * 8.50 = \text{\$340} \text{ REGULAR PAY}$$

$$3 * 12.75 = \text{\$38.25} \text{ OVERTIME PAY}$$

$$\text{REG.} \quad \text{OT.} \quad \text{TIPS} \\ 340 + 38.25 + 400 =$$

$$\boxed{\$778.25}$$

- 12) Adrian is paid 17.50 per hour and works 36 hours one week. Her deductions for that week add up to \$42.30. How much money does she actually bring home for that week?

$$\$17.50 * 36 = \text{\$630}$$

$$\text{\$630} - \text{\$42.30} = \boxed{\$587.70}$$

- 14) If 5 boxes of crackers cost a total of \$18.75, how much does each box cost?

$$\frac{\$18.75}{5} = \boxed{\$3.75}$$

Determine the better buy (cheaper price per unit) of the two given options.

15) Container A has 24 cookies and costs \$7.60

Container B has 14 cookies and costs \$5.20.

$$\frac{\$7.60}{24} = .32$$

$$\frac{5.20}{14} = .37$$

CONTAINER A

16) Container A has 10 oranges and costs \$5.49.

Container B has 6 oranges and costs \$2.94.

$$\frac{\$5.49}{10} = .55$$

$$\frac{2.94}{6} = .49$$

CONTAINER B

Solve each problem.

17) 190% of 139 is what?

$$1.90 * 139 = x$$

$$264.1 = x$$

18) What percent of 35 is 64.5?

$$x * 35 = 64.5$$

$$x = 1.843$$

19) 43 is 97% of what?

$$\frac{43}{.97} = .97 * x$$

$$44.33 = x$$

20) What percent of 37 is 6?

$$x * 37 = 6$$

$$x = .162$$

21) 31% of what is 135?

$$.31 * x = 135$$

$$x = 435.48$$

22) What is 1% of 39?

$$x = .01 * 39$$

$$x = .39$$

Find the total restaurant bill you must pay given the original bill and the tip percentage.

23) Bill: \$65.78
Tip: 23%

$$\begin{aligned} \$65.78 * .23 &= \$15.13 \\ \$65.78 + \$15.13 &= \boxed{\$80.91} \end{aligned}$$

24) Bill: \$104.25
Tip: 22%

$$\begin{aligned} \$104.25 * .22 &= \$22.94 \\ \$104.25 + \$22.94 &= \boxed{\$127.19} \end{aligned}$$

Find the selling price of each item.

25) Original price: \$34.95
Discount: 30%

$$\begin{aligned} \$34.95 * .30 &= \$10.49 \\ \$34.95 - \$10.49 &= \boxed{\$24.46} \end{aligned}$$

26) Original price: \$64.50
Discount: 10%

$$\begin{aligned} \$64.50 * .10 &= \$6.45 \\ \$64.50 - \$6.45 &= \boxed{\$58.05} \end{aligned}$$

27) Cost: \$200.00
Markup: 40%

$$\begin{aligned} \$200 * .40 &= \$80 \\ \$200 + \$80 &= \boxed{\$280} \end{aligned}$$

28) Cost: \$19.50
Markup: 50%

$$\begin{aligned} \$19.50 * .50 &= \$9.75 \\ \$19.50 + \$9.75 &= \boxed{\$29.25} \end{aligned}$$

29) Cost: \$9.99
Markup: 14%
Tax: 5%

$$\begin{aligned} \$9.99 * .14 &= \$1.40 \quad \text{MARKUP PRICE} \\ \$9.99 + \$1.40 &= \$11.39 \\ \$11.39 * .05 &= \$0.57 \quad \text{TAX AMOUNT} \\ \$11.39 + \$0.57 &= \boxed{\$11.96} \end{aligned}$$

30) Cost: \$150.00
Markup: 90%
Tax: 4%

$$\begin{aligned} \$150 * .90 &= \$135 \quad \text{MARKUP PRICE} \\ \$150 + \$135 &= \$285 \\ \$285 * .04 &= \$11.40 \quad \text{TAX AMOUNT} \\ \$285 + \$11.40 &= \boxed{\$296.40} \end{aligned}$$