

Questions:

- 1) Change the following percent to the equivalent fractions:
 - a) 75%
 - b) 33%
 - c) 125%
- 2) Change the following decimals to the equivalent fractions:
 - a) 0.40
 - b) 0.375
 - c) 1.5
- 3) Change the following decimals to the equivalent percent:
 - a) 0.005
 - b) 2.50
 - c) 0.81
- 4) A textbook that normally sells for \$90.00 is on sale for $\frac{1}{3}$ off. The cashier rings in \$63.00. Is that the correct amount? What is the correct sale price?
- 5) Tiffany was earning \$7.50 per hour at her part-time job in a library. In January 2000, she received a 2.7% raise. What is her new hourly wage?
- 6) A certain airline, known for having trouble with lost baggage, advertises that lost baggage claims had decreased by 110%. Is this a reasonable statement to make? Explain.
- 7) You bought twenty shares in a mutual fund company at \$15 in January 2011. In June 2011, the shares had increased in their price by 20%. However, by January 2012, the shares had decreased by 20% from the price in June. What was the value of the shares in January 2012?
- 8) A pair of pants regularly priced at \$84.99 is on sale at 25% off. Estimate and calculate the sale price.
- 9) You are interested in taking a trip to the US. The trip is advertised at \$1395 US. What is the cost in Australian dollars, if \$1 US = \$1.57 AUD?
- 10) Last year, Adelaide received 723 mm of precipitation. How many centimetres is this? How many inches is this equivalent to? (1 inch = 25.4 mm)
- 11) You are in charge of a new childcare centre. You have a budget of \$140 000 to be used as follows: salaries 55%, utilities 10%, rent 12%, administration and supplies 16%. The remainder is for miscellaneous expenses. How much is spent on salaries, and how much is spent on miscellaneous expenses?
- 12) Kathy bought 5 cases of juice boxes at a recent sale at a supermarket for her day care centre, which has 15 children. Each case contains 10 sleeves and each sleeve contains 3 juice boxes.
 - a) How long will the supply of juice boxes last if each child has one juice box per day?
 - b) How long will the supply of juice boxes last if each child has only one box on pizza day, which occurs once a week?

Check your answers over the page.

Answers

- 1) a) $\frac{3}{4}$ b) $\frac{1}{3}$ c) $1\frac{1}{4}$
- 2) a) $\frac{2}{5}$ b) $\frac{3}{8}$ c) $1\frac{1}{2}$
- 3) a) 0.5% b) 250% c) 81%
- 4) No - $\frac{1}{3}$ is not 30%. The correct sale price is \$60
- 5) New wage is \$7.70 increase of approx. \$0.20
- 6) No - cannot have decreases more than 100%
- 7) June- \$18
January 2000 - \$14.40
- 8) Estimate: \$64 - Actual: \$63.74
- 9) \$2190.15 AUD
- 10) 28.46 inches
- 11) Salaries - \$77 000 miscellaneous - \$9800
- 12) a) 2 weeks b) 10 weeks

<http://thestudio.humber.ca/genericskills/mathskills.pdf>

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