Basic Percentages and Fractions Practice #3

1. What is 0.005 as a percentage?

2. What is 4 out of 90 as a percentage?

3. What is 8% as a fraction?

4. What is 105% of 75?

5. In a test with 40 questions Tim get 25 correct. What is his percentage mark?

6. 60% of a school's expenses are paid by fund raising efforts. If the total expenses for a year were $11,562, how much money was contributed from fund raising efforts?

7. A company has $12\frac{2}{5}$ tonnes of stock and sell seven-tenths of it. How much is left?

8. Amanda paid $388 for a cycle. She sold it a year later for 25% less than what she paid. How much did she sell it for?

9. What is $\frac{5}{9}$ of 1.2?

10. A shampoo manufacturer advertises a new bottle which contains 25% more than the old bottle for the same price. If the old bottle contained 200 ml, how big is the new bottle?

11. A diamond ring increases in value from $2,000 to $2,500. What % increase is this?

12. Sam's dad pays $\frac{1}{3}$ of the price of his first car. If Sam pays $1700, how much was the car?

13. A jersey which was priced at $80 is reduced to $60 in a sale. What % reduction is this?

14. If a company expects three-quarters of its trucks to need an overhaul every year, how many overhauls would it expect in a fleet of 28?

15. 187 out of 203 trees planted along a boundary survived. What % of trees survived?

16. A man owes the inland revenue department $402 in tax. Because he fails to pay by the due date an extra 10% penalty is added. What must he now pay in total?

17. A farm valued at $2,480,000 sold for 40% below valuation. What did it sell for?

18. A 960 mm length is to be divided into equal sections of a fifth. How long is each section?

19. A table of length 80 cm is to be shortened by 10%. What is the new length?

20. A $900 television was bought on Hire Purchase. A 20% deposit was required and 28% interest was charged *on the rest* for the hire purchase. What was the full amount paid?

Answers: Basic Percentages and Fractions Practice #3

There are usually many ways of answering these questions (*but only one correct answer*).

1. $0.005 \times 100 =$ **0.5%**

2. $4 \div 90 = 0.0444$ **= 4.44%** (do not round to a whole number)

3. $8\% = \frac{8}{100}$ **=** $\frac{2}{25}$

4. $^{105}/_{100} \times 75$ **= 78.75**

5. $^{25}/_{40} = 0.625$ **= 62.5%**

6. $^{60}/_{100} \times 11562$ **= $6,937.20**

7. $\frac{3}{10}$ left ; $\frac{3}{10} \times 12\frac{2}{5} = 3\frac{18}{25}$ (or 0.3×12.4) **=** $3\frac{18}{25}$ **or 3.72 tonnes**

8. $^{25}/_{100} \times 388 = \$97$ Take that from \$388 You are left with **$291**

9. $\frac{5}{9} \times 1.2 =$ **0.6667** or $\frac{2}{3}$

10. $^{25}/_{100} \times 200 = 50$ Add that to original 200. That gives **250 ml**

11. \$500 increase. $\frac{\text{change}}{\text{start}} = \frac{500}{2000} = 0.25$ **= 25%**

12. $\frac{2}{3} = \$1700$, so $\frac{1}{3} = \$850$ price $3 \times \frac{1}{3} = 3 \times 850$ **= $2,550**

13. \$20 decrease. $\frac{\text{change}}{\text{start}} = \frac{20}{80} = 0.25$ **= 25% reduction**

14. $^{3}/_{4} \times 28$ **= 21 trucks**

15. $^{187}/_{203} = 0.92118$ **= 92.1%**

16. $^{10}/_{100} \times 402 = 40.2$ Add that to original 402 That gives **$442.20**
(round money to the cent, so **not** \$442.2)

17. $^{40}/_{100} \times \$2{,}480{,}000 = 992{,}00$ Take that from start value. Sale price is **$1,488,000**

18. $^{1}/_{5} \times 960$ **= 192 mm**

19. $^{10}/_{100} \times 80 = 8$ Take that from start value. That gives **72 cm**

20. $^{20}/_{100} \times 900 = \$180.$ So the 28% is charged on 900 – 180 = \$720
$^{28}/_{100} \times 72201.60$ Add this interest to price, including deposit
Full amount is **$1,101.60**