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Diploma HRM online

Assessment maths

1. Simplest form of 12:16

? Divide both by 4:

12:16 = 3:4

2. Divide \$120 in the ratio 2:3

? Total parts = 2 + 3 = 5

? Each part = $$120 \div 5 = 24

? Shares = $2 \times \$24$ and $3 \times \$24 = \48 and \$72

3. Cats to dogs is 4:7, with 28 dogs

? 7 parts = 28 ? 1 part = 4

? Cats = $4 \times 4 = 16$ cats

4. \$240 for 8 hours

? Rate = $$240 \div 8 = $30/hour$

5. Are 6:9 and 8:12 proportional?

? 6:9 = 2:3, 8:12 = 2:3

? Yes, they are proportional.

6. 3 shirts cost \$45, cost of 5 shirts?

? 1 shirt =
$$\$45 \div 3 = \$15$$

? 5 shirts =
$$$15 \times 5 = $75$$

7. 5 pens cost \$10, cost of 12 pens?

? 1 pen =
$$$10 \div 5 = $2$$

? 12 pens =
$$12 \times \$2 = \$24$$

8. Ratio of boys (18) to total students (18+12=30)

? Ratio =
$$18:30 = 3:5$$

9. 25% of 480

$$? = 0.25 \times 480 = 120$$

10. Jacket sold for \$150 after 20% discount

? Let original price
$$= x$$

?
$$x$$
 ? 20% $x = 150$? $0.8x = 150$? $x = 150 \div 0.8 = 187.50

11.5% commission on \$2,000 sales

$$? 0.05 \times 2000 = $100$$

12. 60% of a number is 180

$$? 0.6x = 180 ? x = 180 \div 0.6 = 300$$

13. Simple interest on \$1,200 at 5% for 3 years

?
$$SI = (P \times R \times T)/100 = (1200 \times 5 \times 3)/100 = $180$$

14. Compound interest: \$2,000 at 10% for 3 years

?
$$A = P(1 + r)^t = 2000 \times (1.1)^3$$
 ? $2000 \times 1.331 = \$2,662$

15. Loan of \$2,000 for 2 years at 6% (Simple Interest)

$$? SI = (2000 \times 6 \times 2)/100 = $240$$

? Total =
$$2000 + 240 = $2,240$$