Percentages and money topic test

Name: _____ Date: _____

15 questions | 43 marks | 45 minutes

A progressive by-hand paper covering percentage conversions, shares, discounts, budgets and practical models.

No calculator needed.

1. Write 35% as a decimal and simplified fraction. [2 marks]

2. Write 0.125 as a percentage. [1 mark]

3. Find 40% of 65. [2 marks]

4. Find 7% of 300 dollars. [2 marks]

5. A group has 35 students. Twenty-one take the bus. What percentage take the bus? [2 marks]

6. What percentage of 2.40 dollars is 36 cents? [3 marks]

7. A 96-dollar pair of shoes has 25% off. Find the price paid. [2 marks]

8. An item costs 120 dollars before a 15% discount. Find the saving and sale price. [3 marks]

9. Shop A sells a 75-dollar bag with 20% off. Shop B sells the same bag for 62 dollars. Which is cheaper, and by how much? [3 marks]

10. From 90 dollars, buy 8 pens at 4.25 dollars each and 6 notebooks at 3.50 dollars each. How much remains? [3 marks]

11. Which is largest: $\frac{7}{8}$, 0.86 or 85%? Explain. [2 marks]

12. Shop C offers 20% off an 80-dollar jacket. Shop D offers 10% off the same jacket, marked at 70 dollars. A student says C must be cheaper because its discount is larger. Is the student correct? [4 marks]

13. An art order has a 90-dollar item discounted by 20%. Delivery costs 8 dollars. The budget is 100 dollars. [4 marks]

(a) Find the total cost, including delivery. [2 marks]

(b) Find the money left. [2 marks]

14. A venue charges a fixed 24 dollars plus 3 dollars per person. The budget is 90 dollars. Assume there is enough space. [4 marks]

(a) Find the largest affordable number of people. [3 marks]

(b) State one assumption about the price model. [1 mark]

15. A stall sells 20 items for 2.80 dollars each. Materials cost 1.20 dollars per item, and setup costs 8 dollars once. [6 marks]

(a) Find the income. [1 mark]

(b) Find the total cost. [2 marks]

(c) Mia predicts a surplus of 32 dollars by multiplying 20 by 1.60. Explain her mistake and find the correct surplus. [3 marks]