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|  | | NAME: | | | |
| | | Gr 8 | | Date: | |
| CAPS Reference | 2-3 Algebraic Expressions (Term 2) Expand and simplify algebraic expressions | | | | |
| Topic | 2-3-6 Algebraic Problems | | | | |



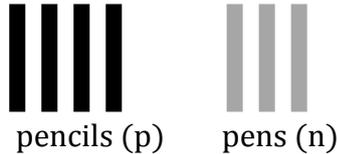
1. Got it? [5 mins]

Reminder:

Solving an algebraic problem:

1. Read the question carefully.
2. If necessary draw a diagram.
3. Write the facts using algebra.
4. Solve the problem.

Example: Mbali buys 4 new pencils and 3 pens. She spends R63.00. If the pencils cost R7.50 each, what is the price of each pen?



$$4p + 3n \text{ cost R}63.00$$

$$4(7.50) + 3n \text{ cost } 63$$

$$30 + 3n \text{ cost } 63$$

$$3n \text{ costs } 33$$

$$n \text{ costs } 11 \quad \text{The pens cost R}11.00 \text{ each}$$



2. Go ahead! [20 mins]

- 2.1 Siya has R500 to spend on clothes. He buys 2 pairs of trousers and 3 shirts. The trousers cost R160.00 each. What does each shirt cost?
- 2.2 401 Gr 8 learners went on an excursion. Six buses were filled and 11 students went in a taxi. How many learners were in each bus?
- 2.3 The sum of three consecutive numbers is 57. What is the smallest of these numbers?
- 2.4 Jason was given a box of 30 chocolate bars. He gave each of his cousins 2 bars and ended up with 6 bars for himself. How many cousins does he have?
- 2.5 Tanya gave away two thirds of her T shirts. She then bought 5 new ones and now has 11. How many did she have originally?
- 2.6 The Catering Club ordered trays of 20 doughnuts per tray to sell at a basketball match. The school tuck shop contributed 2 extra trays of doughnuts to the sale. There was a total of 400 doughnuts to sell. How many trays did the club buy?



3. Check your work! [5 mins]