MEMORANDUM

Name: ..... Class: .....

Date: .....

MARK ____ / 15

Answer all questions. Show all your working — marks are awarded for method as well as the final answer. **Teacher copy: accept any correct equivalent method.**

1 If 5 books cost R125, what do 8 books cost? (2)

One book R25 → **R200** (direct) ✓✓ (2)

2 If 3 kg of rice costs R45, what does 7 kg cost? (2)

R15/kg → **R105** (direct) ✓✓ (2)

3 8 workers finish a job in 6 days. How long would 4 workers take? (2)

$48 \div 4 = \mathbf{12\ days}$ (indirect) ✓✓ (2)

4 5 taps fill a tank in 12 minutes. How long would 10 taps take? (2)

$60 \div 10 = \mathbf{6\ minutes}$ (indirect) ✓✓ (2)

5 A journey takes 4 hours at 90 km/h. How long at 120 km/h? (3)

$360 \div 120 = \mathbf{3\ hours}$ (indirect) ✓✓✓ (3)

6 Is 'number of workers vs time taken' direct or indirect? (1)

Indirect — more workers, less time. ✓ (1)

7 Is 'litres of petrol vs cost' direct or indirect? (1)

Direct — more litres, more cost. ✓ (1)

8 y is directly proportional to x, and $y = 20$ when $x = 4$. Find k. (2)

$k = 20 \div 4 = \mathbf{5}$, so $y = 5x$ ✓✓ (2)

TOTAL: 15 marks

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