

SMART EXAM RESOURCES
STAGE 7 MATHEMATICS
TOPIC QUESTIONS
TOPIC: RATIO
SET-7

1.

\$126 is divided into 3 shares in the ratio 1 : 2 : 4 .

Find the value of the largest share.

\$ [2]

MARK SCHEME :

72	2	M1 for $126 \div 7$ oe
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2.

Rita and Henry own an investment business.

- (a)** They share the profit in the ratio Rita : Henry = 3 : 5.
In one year they make a profit of \$2 400 000.

Calculate Rita's share of the profit.

\$ [2]

MARK SCHEME:

900 000	2	M1 for $\frac{2\,400\,000}{3+5} \times k$
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3.

Amir has car insurance, home insurance and health insurance.
In one year he spends a total of \$5775 on insurance in the ratio
car : home : health = 2 : 3 : 6.

Work out how much he spends on each type of insurance.

Car \$

Home \$

Health \$ [3]

MARK SCHEME:

[Car] 1050 [Home] 1575 [Health] 3150	3	B2 for one value correct or M1 for $\frac{5775}{2+3+6}$ soi by 525
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4.

Sahil and Anika share \$78 in the ratio 5 : 8.

Calculate the amount each receives.

Sahil \$

Anika \$ [2]

MARK SCHEME:

30 48	2	M1 for $\frac{78}{5+8} \times k$ oe where $k = 1, 5$ or 8
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