

SMART EXAM RESOURCES
STAGE 9 MATHEMATICS
TOPIC QUESTIONS
TOPIC: RATIO
SET-4

1.

Ahmed employs three people, Budi, Citra and Dian.

Budi earns \$17 000, Citra earns \$13 600 and Dian earns \$6800.

Find the ratio of their earnings in its simplest form.

Budi : Citra : Dian = : : [2]

MARK SCHEME:

5 : 4 : 2	2	B1 for any correct partial simplification of the ratio
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2.

Indrani and Jagad share some money in the ratio Indrani : Jagad = 7 : 9.

Calculate the percentage of the money that Indrani receives.

..... % [2]

MARK SCHEME:

43.75	2	M1 for $\frac{7}{7+9}[\times 100]$ If zero scored, SC1 for answer 56.25
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3.

Sam and his brother share \$42 in the ratio 2:5.
Sam has the larger share.

Find the amount Sam has.

\$ [2]

MARK SCHEME:

30 nfw	2	M1 for $\frac{42}{2+5}$ [$\times 5$] oe
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4.

The number of concert performances is in the ratio classical music : popular music = 7 : 5.
There are 56 classical music concerts.

Find the number of popular music concerts.

..... [2]

MARK SCHEME:

40	2	M1 for $\frac{56}{7}[\times k]$ oe where $k = 5$ or 12
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5.

At the garage, Pierre, Luigi and Freda sell cars.

They share a bonus of \$12 000 in the ratio Pierre : Luigi : Freda = 8 : 4 : 3.

Calculate the amount they each receive.

Pierre \$

Luigi \$

Freda \$ [3]

MARK SCHEME:

6400 3200 2400	3	B2 for one correct answer in the correct place or M1 for $12\,000 \div (8+4+3) [\times k]$ where k is 8, 4, 3 or 1
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