

**SMART EXAM RESOURCES**  
**STAGE 7 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	<b>2</b>	<b>B1</b> 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	<b>2</b>	<b>M1</b> for $\frac{7}{7+9}[\times 100]$ If zero scored, <b>SC1</b> 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	<b>M1</b> 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	<b>M1</b> 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	<b>3</b>	<b>B2</b> for one correct answer in the correct place  or <b>M1</b> for $12\,000 \div (8+4+3) [\times k]$ where $k$ is 8, 4, 3 or 1
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