

- 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]

[Total: 2]

- 2 Share \$608 in the ratio 4 : 5 : 7.

\$

\$

\$ [3]

[Total: 3]

- 3 Write 6538 correct to the nearest ten.

..... [1]

[Total: 1]

- 4 Calculate.

$$\frac{6.4 \times 4^2}{17.9 - 6.1}$$

Give your answer correct to 3 decimal places.

..... [2]

[Total: 2]

- 5 By writing each number correct to 1 significant figure, find an estimate for the value of

$$\frac{2.8 \times 82.6}{27.8 - 13.9}$$

..... [2]

[Total: 2]

- 6 Adam changes \$700 into euros at a bank.
The exchange rate is \$1 = 0.904 euros.

Work out the amount Adam receives.

..... euros [1]

[Total: 1]

- 7 Ahmed buys materials from China costing 7560 yuan.

Work out the cost of the materials in dollars when the exchange rate is \$1 = 7.06 yuan.
Give your answer correct to the nearest dollar.

\$ [2]

[Total: 2]

- 8 The cost of a flight is \$920.
The exchange rate is \$1 = 6.87 Chinese yuan.

Find the cost of the flight in yuan.

..... yuan [1]

[Total: 1]

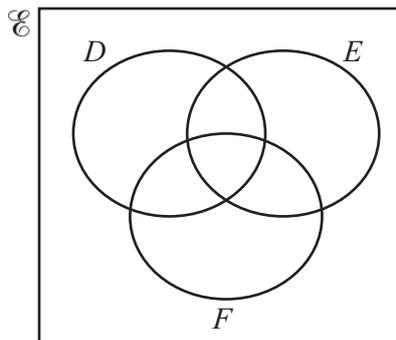
- 9 Alex changes 190 euros (€) into pounds (£) when £1 = €1.1723 .

Calculate the amount Alex receives.
Give your answer correct to 2 decimal places.

£ [2]

[Total: 2]

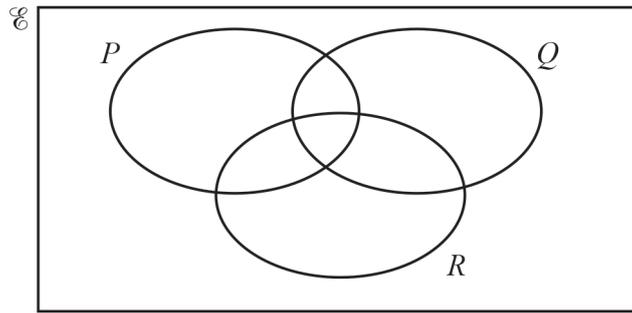
- 10 Shade the region $D' \cup (E \cap F)'$.



[1]

[Total: 1]

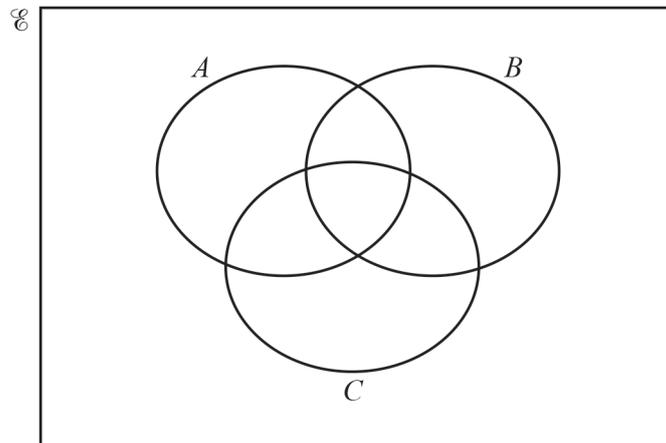
- 11 Shade the region $P \cup (Q \cap R)$.



[1]

[Total: 1]

- 12 In this Venn diagram, shade the region $(A \cup B') \cap C$.



[1]

[Total: 1]

- 13** Carlos invests \$4540 at a rate of $r\%$ per year compound interest.
At the end of 10 years he has earned \$1328.54 in interest.

Calculate the value of r .

$$r = \dots\dots\dots [3]$$

[Total: 3]

- 14** The price of a coat is \$126.
In a sale, this price is reduced by 18%.

Find the sale price of the coat.

$$\text{\$ } \dots\dots\dots [2]$$

[Total: 2]

- 15** Lin invests \$16 000 at a rate of $r\%$ per year simple interest.
At the end of 5 years, she has a total amount of \$17 920.

Find the value of r .

$$r = \dots\dots\dots [3]$$

[Total: 3]

- 16** 268 of the 604 passengers on a plane are women.

Find the percentage of the passengers that are women.

..... % [1]

[Total: 1]

- 17** Clara invests \$8500 for 4 years at a rate of 1.7% per year simple interest.

Calculate the total interest earned during the 4 years.

\$ [2]

[Total: 2]

- 18** Antonio buys beach balls for \$2.50 each and sells them for \$4.20 each.

Work out the percentage profit he makes on each beach ball.

..... % [2]

[Total: 2]

- 19** Work out.

$$\left(\frac{125}{27}\right)^{-\frac{2}{3}}$$

..... [1]

[Total: 1]

20 Find the exact value of $8^{\frac{2}{3}} \times 49^{-\frac{1}{2}}$.

..... [2]

[Total: 2]

21 $2^p = \frac{1}{8^4}$

Find the value of p .

$p =$ [2]

[Total: 2]