

Yr 9 core mod 4 rev sheet 3

- 1) Kyle scores 84 marks out of 96 in an examination.

Work out his percentage mark.

Answer % [1]

- 2) Gregor changes \$700 into euros (€) when the rate is €1 = \$1.4131 .

Calculate the amount he receives.

Answer € [2]

- 3) Shania invests \$750 at a rate of $2\frac{1}{2}\%$ per year simple interest.

Calculate the **total** amount Shania has after 5 years.

Answer \$ [3]

- 4) Write the following in order of size, starting with the smallest.

0.83 $\frac{5}{6}$ 82% $\frac{23}{28}$

Answer < < < [2]

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- 5) Keiko travels from Tokyo to London for the Olympic Games.
On the internet, a flight costs £767.

(a) Use the exchange rate £1 = 143 Japanese Yen to find the cost of the flight in Japanese Yen.

Answer(a) Yen [1]

(b) Write your answer to **part (a)** in standard form.

Answer(b) [1]

- 6) The taxi fare in a city is \$3 **and** then \$0.40 for every kilometre travelled.

(a) A taxi fare is \$9.

How far has the taxi travelled?

Answer(a) km [2]

(b) Taxi fares cost 30% more at night.

How much does a \$9 daytime journey cost at night?

Answer(b) \$ [2]

- 7) Write $\frac{2}{5}$ as a percentage.

Answer % [1]

- 8) Mohinder changes \$240 into Rupees.
The exchange rate is \$1 = 46.2875 Rupees.

Calculate how many Rupees he receives.

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- 9) Hans invests \$750 for 8 years at a rate of 2% per year simple interest.
Calculate the interest Hans receives.

Answer \$ [2]

- 10) Wendy invests \$500 at a rate of 4% per year **compound** interest.
Calculate the total amount of **interest** she receives at the end of 2 years.
Give your answer correct to the nearest dollar.

Answer(d) \$ [4]

- 11) Vince and Wendy share \$2000 in the ratio Vince : Wendy = 19 : 21.
Calculate the amount of money that Vince receives.

Answer(a) \$ [2]

- 12) Write 45% as a fraction in its simplest form.

Answer [1]

- 13) Pedro and Eva do their homework.
Pedro takes 84 minutes to do his homework.

The ratio Pedro's time : Eva's time = 7 : 6.

Work out the number of minutes Eva takes to do her homework.

Answer min [2]

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- 14) Bruce invested \$420 at a rate of 4% per year compound interest.

Calculate the **total** amount Bruce has after 2 years.
Give your answer correct to 2 decimal places.

Answer \$ [3]

- 15) Martina changed 200 Swiss francs (CHF) into euros (€).
The exchange rate was €1 = 1.14 CHF.

Calculate how much Martina received.
Give your answer correct to the nearest euro.

Answer € [3]

- 16) Calculate the number of seconds in 3 hours.

Answer s [1]

- 17) Sheila can pay her hotel bill in Euros (€) or Pounds (£).
The bill was €425 or £365 when the exchange rate was £1 = €1.14 .

In which currency was the bill cheaper?
Show all your working.

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- 18) Write these numbers in order of size, starting with the smallest.

$$0.41 \quad \frac{3}{7} \quad \frac{9}{22} \quad \frac{\pi}{7} \quad 43\%$$

Answer < < < < [2]

- 19) Work out 72 cents as a percentage of 83 cents.

Answer % [1]

- 20) Calculate 17.5% of 44 kg.

Answer kg [2]

- 21) Bruce invested \$800 at a rate of 3% per year simple interest.

Calculate the **total** amount he has after 6 years.

Answer \$ [3]