



RATIO, LINEAR RELATIONSHIPS & TIME

1. Write the numerical ratio for goblets to plates.



2. A pirate crew discovered a chest full of gold coins. There is \$229.98 inside. If the pirates split it between the 6 of them, how much do they keep each?

3. At sea, there is a fleet of ships. It includes, 6 pirate ships, 36 paddle boats and 108 kayaks. Write the simplified ratio of pirate ships to paddle boats to kayaks in the fleet.

4. Choose the correct answer. A crew team has 4 boys and 8 girls. The simplest ration of boys to girls to the team is:

- A - 3 : 2
- B - 8 : 4
- C - 4 : 8
- D - 1 : 2

5. A box of chocolates contains hard-centred and soft-centred chocolates in the ratio 5 : 2. If there are 49 chocolates in the box, how many are hard-centred and how many are softcentred?

6. Choose the correct answer. If the scale is 1 : 100 000, the length of 9 km is represented by:

- A - 9 m
- B - 9 mm
- C - 9 cm
- D - 90 cm
- E - 90 m

REMEMBER: AVERAGE SPEED = DISTANCE \div TIME



7. A pirate ship travels 45km in 3 hours. Calculate the average speed in km/h:
8. A train travels 270km in 6 hours. Calculate the average speed in km/h:
9. A plane that travels 325 km in 30 minutes. Calculate the average speed in km/h:
10. Captain Scarface walks from his motel room to the ship. The ship is approximately 1.8 km away. If it takes him 30 minutes to walk the distance, calculate his average speed in:
- (a) metres/minute
- (b) km/h
11. On a treasure hunting expedition, the crew members searched and travelled 3.5 km in 1 hours 45 minutes. Their average speed was: (show working)
- A - 2.45 km/h
B - 2.35 km/h
C - 2 km/h
D - 5.45 km/h
E - 1.45 km/h