

Worksheet 1 – Direct Proportion

1. Mark needs 600 g of dried fruit to make 18 small fruit pies. How many small fruit pies can he make with 1 kg of dried fruit?
2. It takes Mary 18 minutes to finish reading 4 pages of a book. How long does it take Mary to finish reading a chapter of a book, which is 36 pages long?
3. A machine can produce 6 metres of fabric in two minutes. How many metres of fabric can the machine produce in an hour, working at the same speed?
4. Karen runs 2 km in 23 mins. If Karen runs at the same pace,
 - a) how long will it take her to run 10 km? Give your answer in hours and mins.
 - b) how many km does Karen run in an hour? Give your answer correct to 1 d.p.
5. Max plans to buy toys to donate to charity. The toy Max chooses costs €23.50 each from Shop A.
 - a) How many toys can Max buy with €350?
 - b) Max finds that Shop B sells the same toy at €22.75.



How many toys can Max buy from Shop B, if he plans to spend the same amount of money?

6. Steve invites six people for dinner. He wants to make Lemon Ice Cream for dessert.

LEMON ICE CREAM
(makes 4 servings)

8 egg yolks
150 g sugar
40 ml lemon juice
300 ml double cream

- a) How many eggs does Steve need to make Lemon Ice Cream for 6 people?
- b) Steve has 50 ml of lemon juice. Is this enough to make the recipe for 6 people? If no, how many more ml of lemon juice does he need?

- c) Simone, Steve's wife, says that to make 6 servings of Lemon Ice Cream, one needs 250 g of sugar. Steve states that 275 g is needed. Who is right? Explain.
7. A ream of paper contains 500 sheets and is 6 cm thick. Calculate the thickness of one sheet of paper, giving your answer in mm.
 8. The nutritional information on a tub of Greek yogurt states that the yogurt contains 0.4 g of fat per 100 grams of yogurt. If the tub of yogurt contains 125 grams, how much fat does this tub contain?

