

A book of 250 pages is 1.5 cm thick (not counting the covers).

a. How thick is a book of 400 pages?

Place the quantities in a table
Aligned with their respective units

	Page	CM
Book 1	250	1.5
Book 2	400	x

Create a Fractional Equation

$$\begin{array}{r} 250 \\ 400 \\ \hline x \end{array}$$

$250x = 400(1.5) = 600$
 $250x \div 250 = 600 \div 250$
 $x = 2.4 \text{ cm}$

b. How many pages are there in a book 2.7 cm thick?

Place the quantities in a table
Aligned with their respective units

	Page	CM
Book 1	250	1.5
Book 3	x	2.7

Create a Fractional Equation

$$\begin{array}{r} 250 \\ x \\ \hline 2.7 \end{array}$$

$1.5x = 250(2.7) = 675$
 $1.5x \div 1.5 = 675 \div 1.5$
 $x = 450 \text{ pages}$

1. Sam covers 9 m when he walks 12 paces. How far does he travel when he walks 16 paces? m

2. I can buy 24 bottles of a cold drink for \$25 when buying in bulk. How many bottles can I buy at the same rate for \$75? bottles

3. If 64 seedlings are allowed 24 cm^2 of space,

- how much space should be allowed for 48 seedlings? cm^2
- how many seedlings can be planted in 27 cm^2 ? seedlings

4. A ream (500 sheets) of paper is 6 cm thick. How thick a pile would 300 sheets make? cm

5. At a school picnic 15 sandwiches are provided for every 8 children. How many sandwiches are needed for 56 children? sandwiches

6. House contents insurance is charged at the rate of \$4.50 per thousand dollars worth of the contents. How much is the insurance if the contents are worth \$13,600? \$

7. If the insurance paid on the contents of a house is \$90, at the rate of \$5 per thousand dollars worth, what are the house contents worth? \$

8. It takes Margaret 45 minutes to walk 4 km.

a. How long would it take her to walk 5 km at the same speed? minutes

b. How far would she go in 1 hour? km

9. It takes a gardener 45 minutes to dig a flower bed of area 7.5 m^2 . If he digs at the same rate, how long does he take to dig 9 m^2 ? minutes

10. Fencing costs \$12 per 1.8 m length. How much would 7 m cost? \$

11. A recipe for 12 scones requires 2 teaspoons of baking powder and 240 g of flour. If a larger number of scones are made, using 540 g of flour, how much baking powder is needed?

scones can be made using 540 g of flour.

teaspoons of baking powder is needed, if 540 g of flour is used