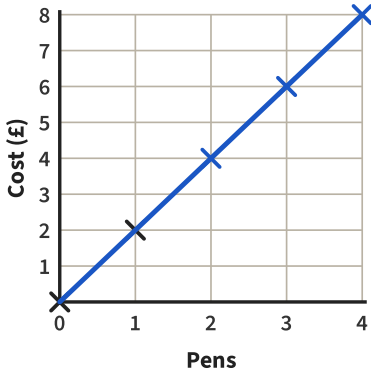


Direct Proportion Graphs

1

1 pen costs £2. Draw the graph.

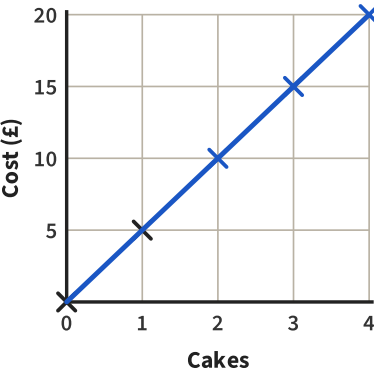
Pens	0	1	2	3	4
Cost (£)	0	2	4	6	8



2

1 cake costs £5. Draw the graph.

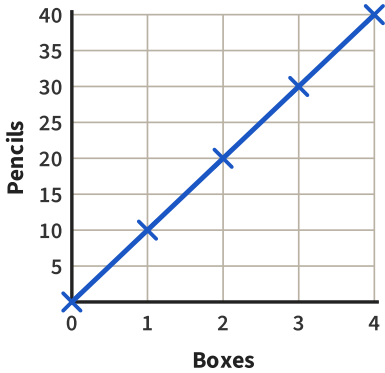
Cakes	0	1	2	3	4
Cost (£)	0	5	10	15	20



3

1 box holds 10 pencils.
Draw the graph.

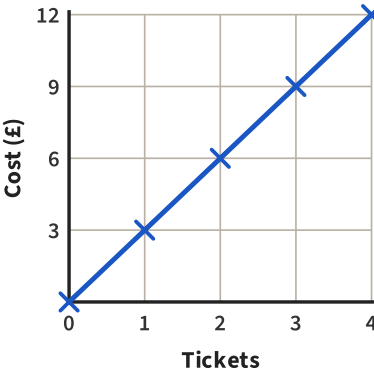
Boxes	0	1	2	3	4
Pencils	0	10	20	30	40



4

1 ticket costs £3. Draw the graph.

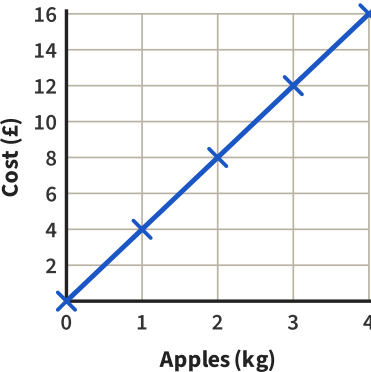
Tickets	0	1	2	3	4
Cost (£)	0	3	6	9	12



5

1 kg of apples costs £4.
Draw the graph.

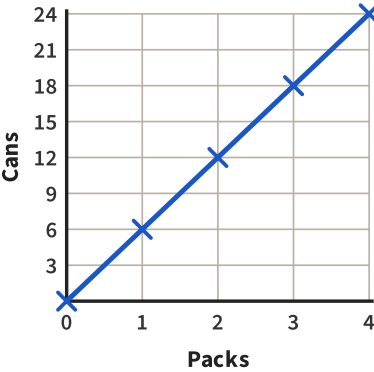
kg	0	1	2	3	4
Cost (£)	0	4	8	12	16



6

1 pack holds 6 cans. Draw the graph.

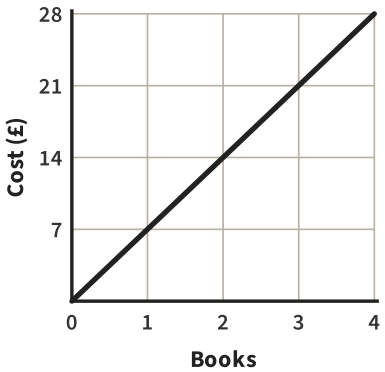
Packs	0	1	2	3	4
Cans	0	6	12	18	24



7

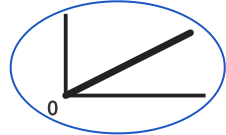
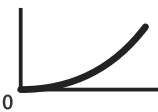
The line shows the cost of books.
Fill in the table.

Books	0	1	2	3	4
Cost (£)	0	7	14	21	28



8

Which graph shows
direct proportion? Circle it.

	Straight line?	Through (0,0)?
A		Yes No
B		Yes Yes
C		No Yes

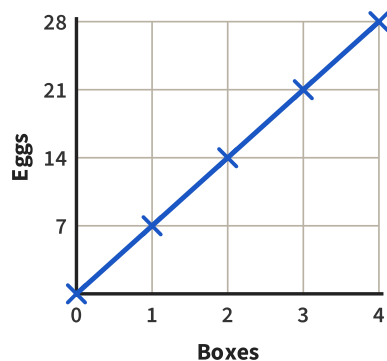
Direct Proportion Graphs *further practice*

ANSWERS

9

1 box holds 7 eggs. Draw the graph.

Boxes	0	1	2	3	4
Eggs	0	7	14	21	28



10

1 bag holds 5 kg of sand. Draw the graph.

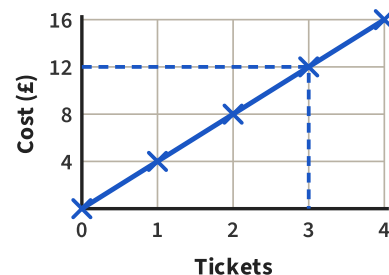
Bags	0	2	4	6	8
Sand (kg)	0	10	20	30	40



11

1 ticket costs £4. Draw the graph.
How many tickets can you buy for £12?

Tickets	0	1	2	3	4
Cost (£)	0	4	8	12	16

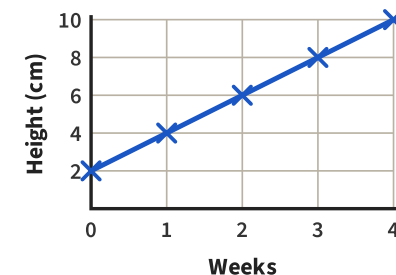


£12 buys 3 tickets

12

A plant is 2 cm tall. It grows 2 cm each week. Plot the points.
Is it direct proportion?

Weeks	0	1	2	3	4
Height (cm)	2	4	6	8	10



Direct proportion? No

13

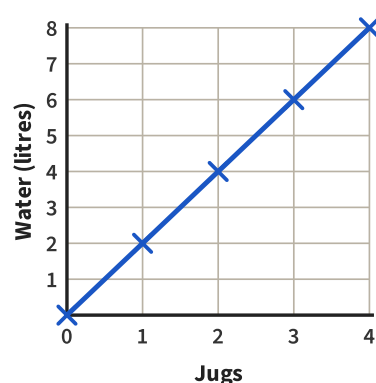
The line shows the cost of cheese. How much do 3 kg cost?



3 kg cost £18

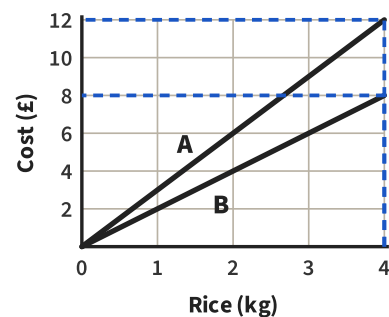
14

1 jug holds 2 litres of water. Draw the graph.



15

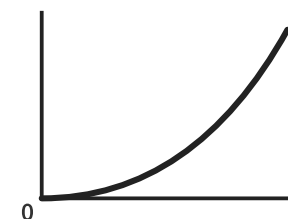
The lines show the cost of rice at shop A and shop B. Which shop is cheaper for 4 kg?



Cheaper: Shop B (£8, not £12)

16

Kim says this graph shows direct proportion. Kim is wrong. Why?



Kim is wrong because it is not a straight line.