

Shuttle: Proportion



You are **pair A**. Pair A has questions 1 and 3, pair B has questions 2 and 4. Question 1 stands alone. Every question after it has a pink box: write in the number the other pair passes you, then solve. No talking between pairs. Only the number gets passed. Finish the round and check question 4 with the teacher.

Round 1

Q1

y is directly proportional to x . When $x = 4$, $y = 10$.
Find y when $x = 10$.

Answer _____

Pass your answer to pair B

Q2

Pair B has this question.

Q3

A square of side cm is enlarged by scale factor 3.
Find the perimeter of the image, in cm.
Write pair B's answer to question 2 in the pink box.

Answer _____

Pass your answer to pair B

Q4

Pair B has this question.

Round 2

Q1

3 pens cost £2.40.
How much do 10 pens cost, in pence?

Answer _____

Pass your answer to pair B

Q2

Pair B has this question.

Q3

y is directly proportional to x .
When $x =$, $y = 5$.
Find y when $x = 60$.
Write pair B's answer to question 2 in the pink box.

Answer _____

Pass your answer to pair B

Q4

Pair B has this question.

Round 3

Q1

y is inversely proportional to x .
When $x = 3$, $y = 8$.
Find y when $x = 4$.

Answer _____

Pass your answer to pair B

Q2

Pair B has this question.

Q3

4 taps fill a pool in minutes.
How many minutes would 6 taps take?
Write pair B's answer to question 2 in the pink box.

Answer _____

Pass your answer to pair B

Q4

Pair B has this question.

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You are **pair B**. Pair A has questions 1 and 3, pair B has questions 2 and 4. Question 1 stands alone. Every question after it has a pink box: write in the number the other pair passes you, then solve. No talking between pairs. Only the number gets passed. Finish the round and check question 4 with the teacher.

Round 1

Q1

Pair A has this question.

Q2

y is inversely proportional to x .

When $x = 5$, $y =$.

Find y when $x = 25$.

Write pair A's answer to question 1 in the pink box.

Answer _____

Pass your answer to pair A

Q3

Pair A has this question.

Q4

6 workers take minutes to unload a lorry.

How many minutes would 8 workers take?

Write pair A's answer to question 3 in the pink box.

Answer _____

Hand your answer to the teacher

Round 2

Q1

Pair A has this question.

Q2

x and y are inversely proportional and

$xy =$.

Find y when $x = 40$.

Write pair A's answer to question 1 in the pink box.

Answer _____

Pass your answer to pair A

Q3

Pair A has this question.

Q4

A triangle with perimeter cm is enlarged by scale factor 4.

Find the perimeter of the image, in cm.

Write pair A's answer to question 3 in the pink box.

Answer _____

Hand your answer to the teacher

Round 3

Q1

Pair A has this question.

Q2

y is directly proportional to x .

When $x =$, $y = 27$.

Find y when $x = 8$.

Write pair A's answer to question 1 in the pink box.

Answer _____

Pass your answer to pair A

Q3

Pair A has this question.

Q4

The point (, 12) is enlarged by scale factor $\frac{1}{2}$ about (0, 0).

Add together the coordinates of the image point.

Write pair A's answer to question 3 in the pink box.

Answer _____

Hand your answer to the teacher