

Prior-knowledge relay and maths bingo for CBSE Class 9 and 10

CBSE Math Revision · CBSE Class 9 and 10 · Student sheet

Name _____

Class _____

Date _____

No calculator. Every answer works out exactly.

Starter (5 minutes)

1. Find someone who can tell you the sum of the interior angles of a pentagon.
2. Find someone who can expand $(x + 3)(x - 5)$.
3. Find someone who can work out 15% of 80.
4. Find someone who can solve $3x + 7 = 22$.

Main activity (30 minutes)

Task A: Leg 1: numbers

Each answer is passed to the next person.

- a. Find the HCF of 36 and 48. Pass on your answer, A .
- b. Find the LCM of A and 18. Pass it on as B .
- c. Work out $\sqrt{B} + B/4$. Pass it on as C .
- d. Without dividing, say whether $1/C$ has a terminating decimal expansion, and why.

Task B: Leg 2: algebra

Each answer is passed to the next person.

- a. Solve $2(x - 3) = 14$. Pass on $A = x$.
- b. An AP starts $A, A + 4, A + 8, \dots$. Find its 20th term. Pass it on as B .
- c. Find y when $x = 2$ on the line $y = Bx - 100$. Pass it on as C .
- d. Find the zeroes of $p(x) = x^2 - (C + 9)$.

Task C: Leg 3: shape and data

Each answer is passed to the next person.

- a. Find the area of a triangle with base 12 cm and height 7 cm. Pass on A , the number of cm^2 .
- b. The mean of five numbers is A . Four of them are 40, 45, 38 and 50. Find the fifth. Pass it on as B .
- c. Two angles of a triangle are B° and $(B + 13)^\circ$. Find the third angle. Pass it on as C .
- d. Find the exterior angle next to the interior angle of C° .

Extension

1. Solve the pair of linear equations $2x + y = 11$ and $x - y = 1$.