

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

CBSE Math Revision · CBSE Class 9 and 10 · Teacher answers and notes

No calculator. Every answer works out exactly.

Teacher notes

- ‘Find someone who...’ bingo (starter): students walk round with the sheet and find a different classmate who can do each one; that classmate writes the answer and their initials. First to fill the sheet with correct answers wins. It mixes the class and shows you, at a glance, what was remembered from last year.
- Relay: teams of four sit in a row. Student 1 answers question (a) and passes the answer to student 2, who needs it for (b), and so on. The team brings you the final answer; if it is wrong, they find the broken link together. Nothing is recorded on the site.
- Afterwards, set the [baseline test](#) for a fuller picture of what each student remembers; 20 multiple-choice questions with an instant topic-by-topic report.

Starter

1. **540°**

- $(5 - 2) \times 180 = 540$

2. **$x^2 - 2x - 15$**

- $x^2 - 5x + 3x - 15$

3. **12**

- $10\% = 8$ and $5\% = 4$

4. **$x = 5$**

- $3x = 15$

Task A: Leg 1: numbers

a. **12**

- $36 = 2^2 \times 3^2$, $48 = 2^4 \times 3$
- $\text{HCF} = 2^2 \times 3 = 12$

b. **36**

- $12 = 2^2 \times 3$, $18 = 2 \times 3^2$
- $\text{LCM} = 2^2 \times 3^2 = 36$

c. **15**

- $6 + 9 = 15$

d. **No: it does not terminate**

- $15 = 3 \times 5$. The denominator has a prime factor other than 2 and 5, so $1/15 = 0.0666\ldots$ repeats.

Task B: Leg 2: algebra

a. **10**

- $x - 3 = 7$

b. **86**

- $a_{20} = 10 + 19 \times 4 = 86$

c. **72**

- $86 \times 2 - 100 = 72$

d. **9 and -9**

- $x^2 - 81 = (x - 9)(x + 9)$

Task C: Leg 3: shape and data

a. **42**

- $\frac{1}{2} \times 12 \times 7 = 42$

b. **37**

- $5 \times 42 = 210$
- $210 - 173 = 37$

c. **93**

- $180 - 37 - 50 = 93$

d. **87°**

- $180 - 93 = 87$

Extension

1. **$x = 4$, $y = 3$**

- Add: $3x = 12$
- $y = 4 - 1 = 3$

Every question is original and every answer was recomputed by computer before publishing.