Exercise 6B

Q1

Answer :

(c) 18

Explanation:

$= 8 + 4 \div 2 \times 5$

$= 8 + 2 \times 5$

$= 8 + 10 = 18$

Q2

Answer :

(b) 12

Explanation:

= 54 ÷ 3 of 6 + 9

= 54 ÷ (3 x 6) + 9

= 54 ÷ 18 + 9

= 3 + 9 = 12

Q3

Answer :

(b) 3

Explanation:

= 13 - (12 - 6 ÷ 3)

= 13 - (12 - 2)

= 13 - 10 = 3

Q4

Answer :

(a) 7

Explanation:

$= 1001 \div 11 \text{ of } 13$

$= 1001 \div (11 \times 13)$

$= 1001 \div 143 = 7$

Q5

Answer :

(b) 121

Explanation:

Given expression:

= 133 + 28 ÷ 7 - 8 × 2

= 133 + 4 - 8 ×2 [Performing division]

= 133 + 4 - 16 [Performing multiplication]

= 137 - 16 [Performing addition]

= 121 [Performing subtraction]

Q6

Answer :

(a) 3636

Explanation:

Given expression:

= 3640 - 14 ÷ 7 × 2

= 3640 - 2 ×2 [Performing division]

= 3640 - 4 [Performing multiplication]

= 3636 [Performing subtraction]

Q7

Answer :

(b) 920

Explanation:

Given expression:

= 100 × 10 — 100 + 2000 ÷ 100

= 100 × 10 — 100 + 20 [Performing division]

= 1000 — 100 + 20 [Performing multiplication]

= 1020 —100 [Performing addition]

= 920 [Performing subtraction]

Q8

Answer :

(b) 23

Explanation:

Given expression:

$= 27 - [18 - \{16 - (5 - \overline{4 - 1})\}]$

$= 27 - [18 - \{16 - (5 - 3)\}]$ (Removing bar)

$= 27 - [18 - \{16 - 2\}]$ (Removing parentheses)

$= 27 - [18 - 14]$ (Removing braces)

$= 27 - 4$ (Removing square brackets)

$= 23$

Q9

Answer :

(a) 29

Explanation:

Given expression:

$= 32 - [48 \div \{36 - (27 - \overline{16 - 9})\}]$

$= 32 - [48 \div \{36 - (27 - 7)\}]$ (Removing bar)

$= 32 - [48 \div \{36 - 20\}]$ (Removing parentheses)

$= 32 - [48 \div 16]$ (Removing braces)

$= 32 - 3$ (Removing square brackets)

$= 29$

Q10

Answer :

(a) 6

Explanation:

Given expression:

$= 8 - [28 \div \{34 - (36 - 18 \div 9 \times 8)\}]$ [Performing division]

$= 8 - [28 \div \{34 - (36 - 2 \times 8)\}]$ [Performing multiplication]

$= 8 - [28 \div \{34 - (36 - 16)\}]$

$= 8 - [28 \div \{34 - 20\}]$ [Removing parentheses]

$= 8 - [28 \div 14]$ [Removing braces]

$= 8 - 2 = 6$ [Removing square brackets]

********** END **********