

Year 8 Class 3 questions

Q1

$$-5 + (-3) = \square$$

Q2

$$(-3)^2 = \square$$

Q3

$$28 \div (-4) = \square$$

Q4

$$-5 + -7 \times -3 = \square$$

Q5

$$\text{If } 3^{10} \div 3^2 = 3^A,$$

$$\text{then } A = \square$$

Q6

Simplify $m \div m^4$.

- m^3 $2m$ $\frac{1}{m^3}$

Q7

$$33 - (-18) = \square$$

Q8

$$8 - (-8) = \square$$

Q9

$$8 - (-15) = \square$$

Q10

$$[6 \times -3 + -2] \div 2 = \square$$

Q11

$$[7 \times -2 + -1] \div -3 = \square$$

Q12

$$[-2 \times -4 - 6] \times 11 = \square$$

Q13

$$\text{Evaluate: } 4^0 - 4 = \square$$

Q14

$$\text{Evaluate: } 3^0 + 3^2 = \square$$

Q15

$$\text{Evaluate: } -5 + (2 - 3^0) = \square$$

Q16

Simplify $\frac{36x^2y^4}{9xy^2}$.

- $4y^4$ $4x$ $4xy^2$

Q17

Simplify $18m^6 \div 2m^3$.

- m^3 $20m$ $9m^3$

Q18

Simplify $5a^2b^3 \div 10a^3b$.

- $\frac{b^2}{2a}$ $2ab$ ab

Q19

$$-12 + (-15) = \square$$

Q20

$$-19 + (-7) = \square$$

Q21

$$-9 + (-19) = \square$$

Q22

Find the missing number that makes this number sentence correct.

$$-6 - (\square \times -2) = -12$$

-1 -2 -3 2

Q23

Find the missing number that makes this number sentence correct.

$$-8 + \square \times 4 = -28$$

-9 1 -5 5

Q24

Find the missing number that makes this number sentence correct.

$$-5 - \square \times 3 = -2$$

-1 1 -3 -2

Q25

$$\text{If } 2^4 \times 3^2 \times 2^5 = 2^A \times 3^B,$$

$$\text{then } A = \square, \quad B = \square$$

Q26

$$\text{If } 2^6 \times 3^4 \times 2^2 \times 3^5 = 2^A \times 3^B,$$

$$\text{then } A = \square, \quad B = \square$$

Q27

$$\text{If } 3^4 \times 5^2 \times 3 \times 5^4 = 3^A \times 5^B,$$

$$\text{then } A = \square, \quad B = \square$$

Q28

$$\text{Simplify } \frac{16ab^4c}{20ab^4c}.$$

$\frac{4}{5}$ $-\frac{4}{5}$ $\frac{5}{4}$

Q29

$$\text{Simplify } \frac{4m^3n^5}{-8mn^6}.$$

$\frac{2mn}{4mn}$ $\frac{m}{n}$ $-\frac{m^2}{2n}$

Q30

$$\text{Simplify } \frac{45x^2y^3z^5}{63x^4yz^3}.$$

$\frac{5y^2}{7x}$ $\frac{5y^2z^2}{7x^2}$ $\frac{45}{63}$