

Year 8 Class 3 questions

Q1

$$-5 + (-3) = \boxed{} \quad -8$$

Q2

$$(-3)^2 = \boxed{} \quad 9$$

Q3

$$28 \div (-4) = \boxed{} \quad -7$$

Q4

$$-5 + -7 \times -3 = \boxed{} \quad 16$$

Q5

If $3^{10} \div 3^2 = 3^A$,
then $A = \boxed{} \quad 8$

Q6

Simplify $m \div m^4$.

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

Q7

$$33 - (-18) = \boxed{} \quad 51$$

Q8

$$8 - (-8) = \boxed{} \quad 16$$

Q9

$$8 - (-15) = \boxed{} \quad 23$$

Q10

$$[6 \times -3 + -2] \div 2 = \boxed{} \quad -10$$

Q11

$$[7 \times -2 + -1] \div -3 = \boxed{} \quad 5$$

Q12

$$[-2 \times -4 - 6] \times 11 = \boxed{} \quad 22$$

Q13

Evaluate: $4^0 - 4 = \boxed{} \quad -3$

Q14

Evaluate: $3^0 + 3^2 = \boxed{} \quad 10$

Q15

Evaluate: $-5 + (2 - 3^0) = \boxed{} \quad -4$

Q16

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

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

Q17Simplify $18m^6 \div 2m^3$.

- m^3 $20m$ **→** $9m^3$

Q18Simplify $5a^2b^3 \div 10a^3b$.

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

Q19

$$-12 + (-15) = \boxed{}$$

-27

Q20

$$-19 + (-7) = \boxed{}$$

-26

Q21

$$-9 + (-19) = \boxed{}$$

-28

Q22

Find the missing number that makes this number sentence correct.

$$-6 - (\boxed{} \times -2) = -12$$

-3

- 1 -2 -3 2

Q23

Find the missing number that makes this number sentence correct.

$$-8 + \boxed{} \times 4 = -28$$

-5

- 9 1 -5 5

Q24

Find the missing number that makes this number sentence correct.

$$-5 - \boxed{} \times 3 = -2$$

-1

- 1 1 -3 -2

Q25If $2^4 \times 3^2 \times 2^5 = 2^A \times 3^B$,

then $A = \boxed{}$, $B = \boxed{}$

9 2

Q26If $2^6 \times 3^4 \times 2^2 \times 3^5 = 2^A \times 3^B$,

then $A = \boxed{}$, $B = \boxed{}$

8 9

Q27If $3^4 \times 5^2 \times 3 \times 5^4 = 3^A \times 5^B$,

then $A = \boxed{}$, $B = \boxed{}$

5 6

Q28Simplify $\frac{16ab^4c}{20ab^4c}$.

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

Q29Simplify $\frac{4m^3n^5}{-8mn^6}$.

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

Q30

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

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