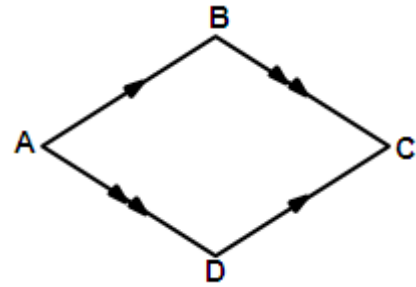


Exam Quiz: Grade 6

Question 1

In the sketch, ABCD is a quadrilateral with sides $AB \parallel DC$ and $BC \parallel AD$. All the sides are equal in length.

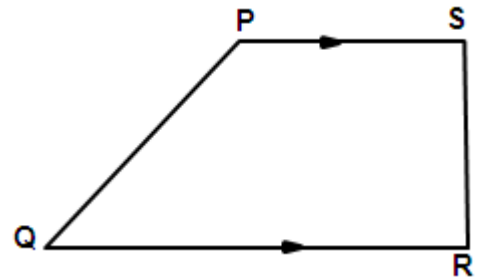


- (a) Name the type of quadrilateral.

- (b) Is this quadrilateral a parallelogram? Give a reason.

- (c) Name two interior angles that will be equal : _____

- (d) PQRS in the sketch is a quadrilateral with two parallel sides.



- (i) Name the parallel sides.

- (ii) Name the type of quadrilateral and give a reason.

- (d) Is it true that a rectangle will always be a parallelogram? Give reasons for your answer.

Question 2

- (a) $5 \times 6 = 6 \times 5$. Give the rule used in this problem. _____
- (b) Will the same rule be valid for division ? Motivate your answer with a calculation.

- (c) $3(5 + 7) = (\text{_____}) + (\text{_____}) = \text{_____}$
- (d) Name the rule that was used in (c) above. _____

Question 3

- (a) Complete the sequence by drawing the next three shapes in each sequence :

(i) $\triangle \square \bigcirc \triangle \square \bigcirc \triangle \square$ _____

(ii) $\diamond \diamond \star \text{Crescent} \text{Crescent} \diamond \diamond \star \text{Crescent}$ _____

(iii) $\oplus \triangle \oplus \triangle \oplus \triangle \oplus \triangle$ _____

- (b) Write one of the following words to describe the given situation : impossible ; very unlikely ; unlikely ; likely ; very likely ; definitely (certainty).

- (i) It was hot and cloudy today, it might rain tomorrow. _____
- (ii) Today is Monday, tomorrow will be Friday. _____
- (iii) In South Africa it will start getting colder in March. _____
- (iv) The sun will set at the end of the day . _____
- (v) This week there will be no learner absent in your school. _____

Question 4

Solve the problems, showing all your work :

(a) A third of a number is 5. What is the number ? _____

(b) You buy six cans of cold drink, each containing 250 ml. What is the total millilitres of cold drink in all the cans together ?

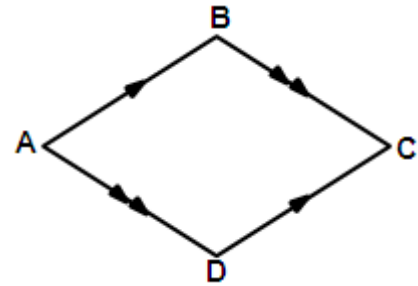
(c) Joan saved 100 ten-cent coins, 40 twenty-cent coins and 10 fifty-cent coins. How many rand did she save ?

Exam Quiz: Memo

Question 1

In the sketch, ABCD is a quadrilateral with sides $AB \parallel DC$ and $BC \parallel AD$. All the sides are equal in length.

- (a) Name the type of quadrilateral.



Rhombus

- (b) Is this quadrilateral a parallelogram? Give a reason.

Yes. Both pairs of opposite sides are parallel

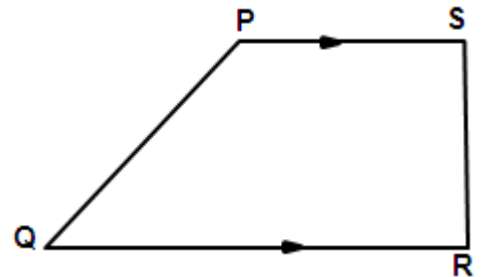
- (c) Name two interior angles that will be equal : $\hat{A} = \hat{C}$ and $\hat{B} = \hat{D}$

- (d) PQRS in the sketch is a quadrilateral with two parallel sides.

- (i) Name the parallel sides.

$PS \parallel QR$

- (ii) Name the type of quadrilateral and give a reason.



Trapezium. One pair of opposite sides are parallel.

- (d) Is it true that a rectangle will always be a parallelogram? Give reasons for your answer.

Yes. A rectangle has all the properties of a parallelogram.

Question 2

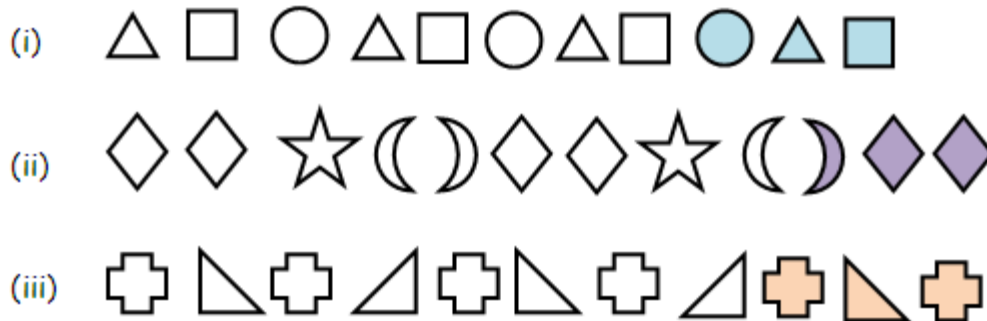
- (a) $5 \times 6 = 6 \times 5$. Give the rule used in this problem. **The commutative property.**
- (b) Will the same rule be valid for division ? Motivate your answer with a calculation.

No. $5 \div 6 \neq 6 \div 5$. $\frac{5}{6} \neq \frac{6}{5}$

- (c) $3(5 + 7) = (3 \times 5) + (3 \times 7) = 15 + 21 = 36$
- (d) Name the rule that was used in (c) above. **The distributive property.**

Question 3

(a)



(b) Write one of the following words to describe the given situation : impossible ; very unlikely ; unlikely ; likely ; very likely ; definitely (certainty).

- (i) It was hot and cloudy today, it might rain tomorrow. **Likely / very likely.**
- (ii) Today is Monday, tomorrow will be Friday. **Impossible.**
- (iii) In South Africa it will start getting colder in March. **Likely / very likely**
- (iv) The sun will set at the end of the day . **Definitely**
- (v) This week there will be no learner absent in your school. **Very unlikely.**

Question 4

- (a) A third of a number is 5. What is the number ? $3 \times 5 = 15$. **The number is 15**
- (b) You buy six cans of cold drink, each containing 250 ml. What is the total millilitres of cold drink in all the cans together ?

$$5 \times 250 = 1500 \text{ ml}$$

- (c) Joan saved 100 ten-cent coins, 40 twenty-cent coins and 10 fifty-cent coins. How many rand did she save ?

$$(100 \times 10) + (40 \times 20) + (10 \times 50) = 1000 + 800 + 500 = 2300 \text{ c} = \text{R23,00}$$