

Question 11 Give the next term in the following number sequences.

11.1 1; 1; 2; 3; 5; 8; _____ (1)

11.2 1; 4; 9; 16; _____ (1)

11.3 16; 8; 4; 2; 1; _____ (1)

11.4 800; -400; 200; -100; 50; _____ (1)

QUESTION 12

12.1 Write 0,425 as a simplified fraction. (1)

12.2 Write $3\frac{1}{6}$ as a decimal. (1)

12.3 Complete the following metric conversions: (2)

$$4,5t = \text{_____} kg$$

$$532 mm = \text{_____} m$$

Question 13

If Sam scores 104 marks for this Mid-Year Mathematics Examination, what percentage would he receive? Round off to the nearest whole percent. (2)

Question 14

Ms Brenzel needs 5 soccer balls for the upcoming Interhouse soccer tournaments. She calculates 5 *adidas* soccer balls to be R899,95 altogether.

The original price of one *Nike* soccer ball is R199, 95. However, all Nike products are on sale. They are selling for 15% off the marked price.

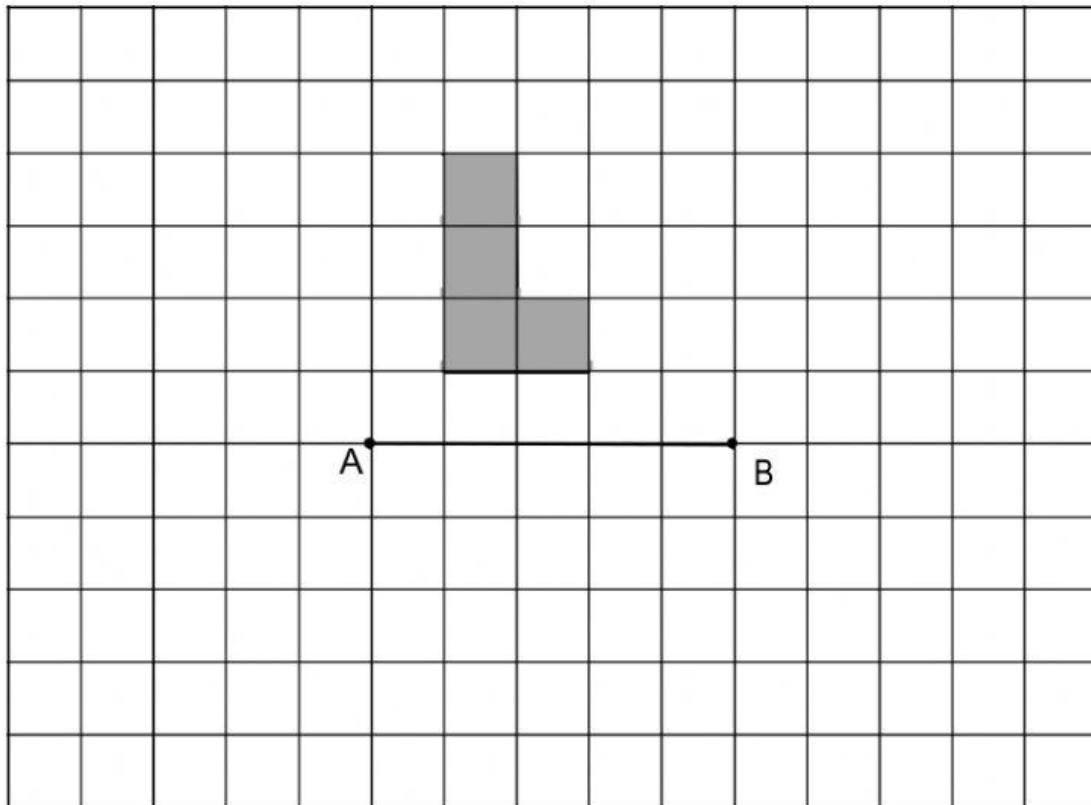


- 14.1 Calculate the discounted price of one *Nike* soccer ball. Round off to the nearest cent. (2)



- 14.2 Ms Brenzel needs to purchase the cheapest option. Show the calculations to help her choose which brand, *adidas* or *Nike*, to buy. (2)

Question 15

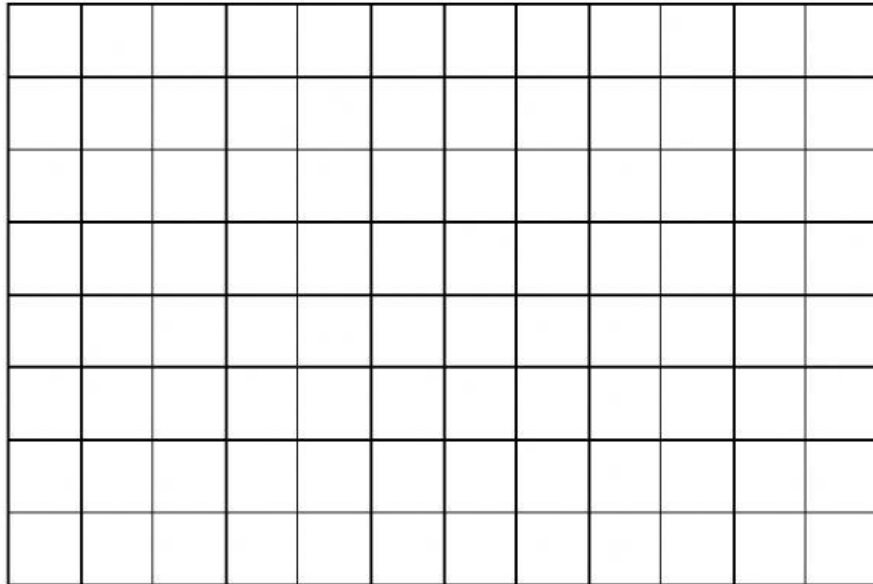


15.1 Translate the shaded shape 5 units to the left and 3 units down. Label the transformation 16.1 (2)

15.2 Reflect the shaded shape about the line AB. Label it 16.2. (2)

15.3 Rotate the shaded shape 90° clockwise about point B. Label it 16.3. (2)

15.4 Enlarge the shaded shape by a scale factor of 3 and draw it on the grid below. (2)



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Question 16 State whether the following statements are true or false.

- 16.1 A parallelogram has no lines of symmetry. (1)
- 16.2 The number of lines of symmetry of an equilateral triangle is 3. (1)
- 16.3 A triangle with one angle 40° and another 50° is definitely a right-angled triangle. (1)
- 16.4 A quadrilateral with all its sides equal and all its angles equal is a rhombus. (1)
- 16.5 The largest angle between the hands of the clock at 15:10 is 325° . (1)
- 16.6 The hour hand of a clock would have turned through 1800° in 6 hours. (1)
- 16.7 If you are facing North and you turn clockwise to face South East, you would have turned 135° . (1)

