UNIT 19

Number & Algebra

ACMNA129

Multiplying decimals by whole numbers

Are these correct? Write Y (yes) or N (no). Do not use a calculator.

1. 5.3 × 7 = 35.21 ☐
2. 23.6 × 3 = 70.8 ☐
3. 200.01 × 5 = 1000.05 ☐
4. 18.6 × 6 = 114.6 ☐
5. 231.09 × 2 = 462.08 ☐
6. 0.36 × 6 = 0.216 ☐
7. 55.55 × 3 = 16.665 ☐
8. 90.09 × 6 = 540.54 ☐
9. 12.702 × 5 = 63.51 ☐
10. 1000.08 × 2 = 2000.016 ☐
11. 23.009 × 9 = 207.081 ☐
12. 9.73 × 5 = 48.65 ☐
13. 21.16 × 4 = 94.64 ☐
14. 25.5 × 5 = 127.5 ☐
15. 125.06 × 3 = 375.18 ☐

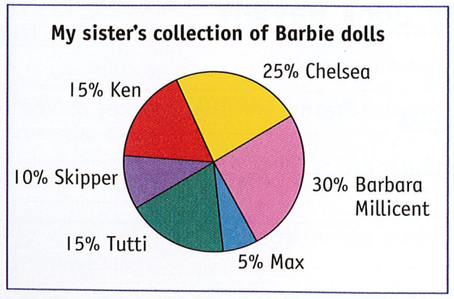
Score 2 points for each correct answer! SCORE /30 0-12 14-24 26-30

Statistics & Probability

ACMSP148

Pie charts with %

This pie chart shows my sister's collection of Barbie dolls.



Use the pie chart to answer the following questions.

1. Of which doll does my sister have the most? _____
2. Which two dolls does my sister have in the same number? _____
3. Of which doll does my sister have the fewest? _____
4. My sister has a third as many of one doll as she has of Barbara. Which doll is that? _____
5. Which doll does my sister have five times as many of as she has of Max? _____
6. If my sister had a total of twenty dolls, how many of them were Chelsea? _____
7. If my sister had a total of twenty dolls, how many of them were Max? _____
8. If my sister had a total of 40 dolls, how many of them were Skipper? _____
9. If my sister had six Skipper dolls, how many Barbara dolls did she have? _____
10. If my sister had six Skipper dolls, how many Tutti dolls did she have? _____
11. If my sister had ten Chelsea dolls, how many Ken dolls did she have? _____
12. If my sister had eight Max dolls, how many Ken dolls did she have? _____
13. If my sister had eight Max dolls, how many Skipper dolls did she have? _____
14. Could my sister have a total of 50 dolls? Answer yes or no and give a reason. _____ _____

Score 2 points for each correct answer! SCORE /28 0-12 14-22 24-28

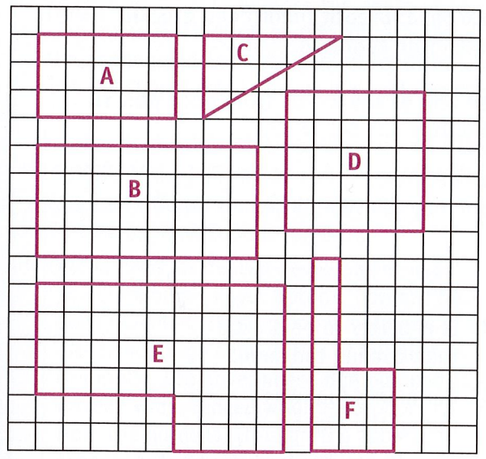
TERM 3 MATHS

Measurement & Geometry

ACMMG137

Perimeter and area

Use the shapes on the grid below to answer the following questions.



For the following questions, use squares, as shown on the grid, for units.

1. What is the area of shape A? _____
2. What is the area of shape B? _____
3. What is the area of shape C? _____
4. What is the area of shape D? _____
5. What is the area of shape E? _____
6. What is the area of shape F? _____

For the following questions, assume each square of the grid is 1 m².

7. What is the area of shape A in square metres? _____
8. What is the perimeter of shape A in metres? _____

Write the perimeter and area for each of these shapes. Assume each square of the grid is 1 m².

9. Area of shape D: _____
10. Perimeter of shape D: _____
11. Area of shape E: _____
12. Perimeter of shape E: _____
13. Area of shape F: _____
14. Perimeter of shape F: _____
15. Area of shape C: _____

Score 2 points for each correct answer! SCORE /30 0-12 14-24 26-30

Problem Solving

UNIT 19

ACMNA129, ACMMG137

1. 202.202 × 2 = 404.404 so does 202.202 × 4 = 808.808? _____ Why? _____ _____
2. 218.16 × 4 = 872.64 so does 218.16 × 2 = 436.32? _____ Why? _____ _____
3. 32.026 × 8 = 256.208 so does 16.026 × 6 = 128.104? _____ Why? _____ _____

Use the shapes in Measurement & Geometry to answer these questions. Use squares, as shown on the grid, for units.

4. If shape A's top right corner was kept in the position it is and the shape's Height (↕) was doubled, how many squares of shape B would it cover? _____
5. If shape F was placed over shape D so that their bottom left corners aligned, how many squares of shape D would shape F cover? _____
6. If shape C's width (↔) was doubled, what would be its area in squares? _____
7. How many squares would need to be added to shape E to make it a square? _____
8. What is the fewest number of squares that need to be taken from shape E to make it a rectangle? _____
9. What is the fewest number of squares that need to be taken from shape E to make it a square? _____
10. If both the height and width of shape B were doubled, how many times larger would it become? _____

TERM 3 MATHS