Grade 8 Math - Number Ratios, Rates and Unit Conversions Practice Test

Name: Class:

- 1. The following is a picture of all the tiles of a Scrabble game. You are to show the following Ratios:
- a) A's to B's
- b) A's to All tiles
- c) All possible vowels to All tiles



2. Javier loves Lays STAX. He sees online that both Dollarama and Walmart

DOLLARAMA

WALMART

\$29.75

• Original flavoured potato chips

- Zero trans fat
- 155g
- A case contains 17 packs

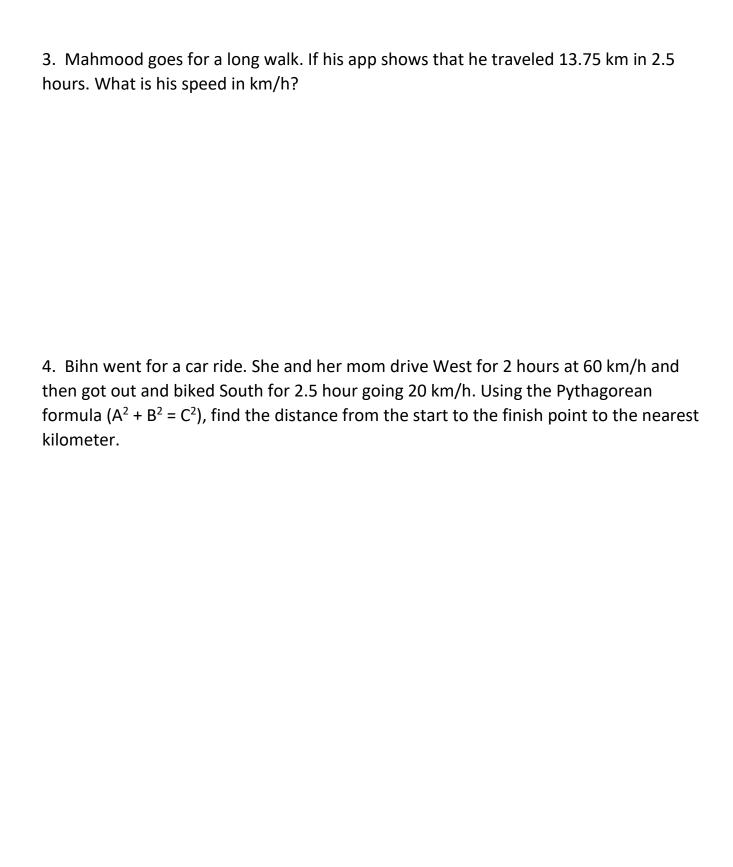
Lay's Stax Original Potato Chips

<u>Lay's</u> 163 g ★★☆☆ <u>(3)</u>

\$2.27

Which is the better deal? (compare \$/100g for each)





Units	To units	Linear	Square	Cubic
		Conversion factor	Conversion Factor	Conversion Factor
Centimetres	Inches	2.54 cm/in	6.4516 cm ² /in ²	16.3871 cm ³ /in ³
Metre	Yard	0.9144 m/yd	0.8361 m ² /yd ²	0.7646 m ³ /yd ³
Inches	Feet	12 in/ft	144 in ² /ft ²	1728 in ³ /ft ³
Feet	Yard	3 ft/yd	9 ft ² /yd ²	27 ft ³ /yd ³

a) 29.2608 m is

_____ yards

b) 108 inches is

_____ feet

c) 83.61 m² is

 $___$ yd 2

d) 99 ft² is

_____ yd²

e) 409.6775 cm³ is

_____ in³

f) 45.876 m³ is

_____ yd³

g) 1.44676 ft³ is

_____ in³

7. A map shows a scale of 3cm: 12km. How far would 32.5cm on the map represent in actual distance? (Hint: This is the distance Bhin drove in Question 4.)

Answers:

- 1. a)
 - b)
 - c)
- 2.
- 3.
- 4.
- 5. a)
 - b)
 - c)
 - d)
 - e)
 - f)
- 6.
- 7.