

Grade 8 word problems

NAME	DATE	SCORE / 8
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Read each problem. Show your work.

- 1 A square rug has an area of 121 square metres. What is the length, in metres, of each side of the rug?

- 2 A large tank holds 9.6×10^4 litres of water, and a small tank holds 2.5×10^3 litres. How many litres of water do the two tanks hold together? Write the answer in scientific notation.

- 3 A closed tin is a cylinder with a radius of 3 centimetres and a height of 11 centimetres. Paper covers the whole outside of the tin, including the top and the bottom. Use 3.14 for π . How many square centimetres of paper cover the tin?

- 4 The water, in litres, left in a tank x minutes after it starts to drain is $g(x) = 61 - 9x$. What is $g(4)$?

- 5 5 friends each buy a ticket and a \$2 drink. They pay \$95 in all. The equation $5(t + 2) = 95$ shows this, where t is the price of one ticket, in dollars. What is the price of one ticket, in dollars?

- 6 A round cake is a cylinder with a radius of 10 centimetres and a height of 10 centimetres. Use 3.14 for π . What is the volume, in cubic centimetres, of the cake?

- 7 A city uses 7×10^4 litres of water each day. How many litres of water does it use in 7×10^2 days? Write the answer in scientific notation.

- 8 The bottom of a ladder is 5 metres from a wall, and the top of the ladder reaches 12 metres up the wall. How long, in metres, is the ladder?

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1	11	2	9.85×10^4	3	263.76
4	25	5	17	6	3140
7	4.9×10^{10}	8	13		