

**GRADE 11 ESSENTIAL
UNIT C – 3D GEOMETRY
SURFACE AREA RECTANGULAR PRISMS**

Name: _____

Date: _____

What Happened to Zelda After She Swallowed Two Nickels, Three Dimes, and a Quarter?

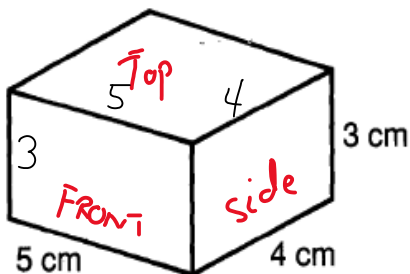
Give the SURFACE AREA of each prism. Find your answer in the answer columns and notice the two letters next to it. Write these letters in the spaces over the exercise (question) number below.

① TH 73 m²**Answers**② OB 8,560 in.²③ AL 23.12 cm²④ AS 94 cm² ✓⑤ ER 318.26 m²⑥ NO 25.92 cm²⑦ EW 846 in.²⑧ IT 86 m²⑨ AN 9,600 in.²⑩ PL 1,050 in.²⑪ ER 104 m²⑫ CH 1,200 in.²⑬ GE 300.56 m²⑭ TR 85 cm²

				AS															
4	2	7	1	5	8	3	6												

Surface area is simply the sum of the area of each face of the shape.

①



Top & Bottom

$$(5 \cdot 4) \cdot 2 = 40 \text{ cm}^2$$

Sides

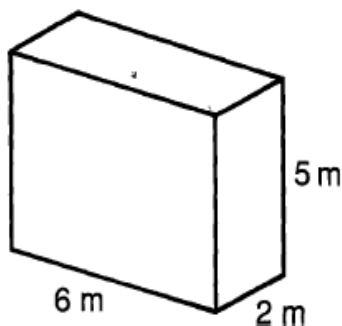
$$(3 \text{ cm} \cdot 4 \text{ cm}) \cdot 2 = 24 \text{ cm}^2$$

FRONT & BACK

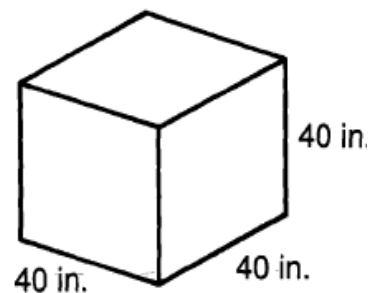
$$(5 \text{ cm} \cdot 3 \text{ cm}) \cdot 2 = 30 \text{ cm}^2$$

Total: 94 cm²

②



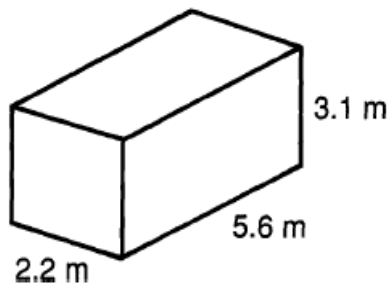
③



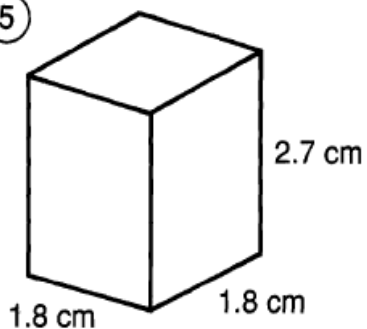
**Always show work!
For you! And for teacher**

MrF

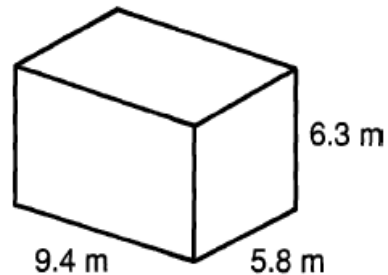
④



⑤



⑥



7. A rectangular storage box is 12 in. wide, 15 in. long, and 9 in. high. How many square inches of colored paper are needed to cover the surface of the box?

Draw your own diagrams!

8. A teacher made a pair of foam dice to use in math games. Each cube measured 10 in. on a side. How many square inches of fabric were needed to cover the two cubes?

If the answer to the puzzle doesn't make sense
find your mistake! Or read the instructions again!