

Solve surface area and volume problems in context

NAME	DATE	SCORE / 10
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1 A box is 7 cm long, 4 cm wide and 7 cm high. How much paint covers all six faces of the box?

- ☐ 210 square centimetres
 ☐ 210 cubic centimetres
 ☐ 196 cubic centimetres
☐ 196 square centimetres

2 A box is 10 cm long, 7 cm wide and 8 cm high. How much sand fills the box?

- ☐ 412 cubic centimetres
 ☐ 560 square centimetres
 ☐ 412 square centimetres
☐ 560 cubic centimetres

3 A tank is 3 m long, 3 m wide and 1 m high. How much paint covers all six faces of the tank?

- ☐ 9 square metres
 ☐ 9 cubic metres
 ☐ 30 cubic metres
 ☐ 30 square metres

4 A tank is 6 cm long, 3 cm wide and 7 cm high. How much water fills the tank?

- ☐ 126 cubic centimetres
 ☐ 162 cubic centimetres
 ☐ 126 square centimetres
☐ 162 square centimetres

5 A box is 4 cm long, 8 cm wide and 5 cm high. How much paper covers all six faces of the box?

- ☐ 160 square centimetres
 ☐ 184 cubic centimetres
 ☐ 184 square centimetres
☐ 160 cubic centimetres

6 A tank is 5 m long, 4 m wide and 2 m high. How much water fills the tank?

- ☐ 40 square metres
 ☐ 76 cubic metres
 ☐ 40 cubic metres
 ☐ 76 square metres

7

A tank is 12 cm long, 5 cm wide and 4 cm high. How much paint covers all six faces of the tank?

- ☐ 240 cubic centimetres ☐ 256 square centimetres ☐ 240 square centimetres
☐ 256 cubic centimetres
-

8

A box is 7 cm long, 2 cm wide and 3 cm high. How much sand fills the box?

- ☐ 42 square centimetres ☐ 82 cubic centimetres ☐ 82 square centimetres
☐ 42 cubic centimetres
-

9

A box is 9 cm long, 3 cm wide and 4 cm high. How much sand fills the box?

- ☐ 108 square centimetres ☐ 108 cubic centimetres ☐ 150 cubic centimetres
☐ 150 square centimetres
-

10

A tank is 5 m long, 2 m wide and 2 m high. How much paint covers all six faces of the tank?

- ☐ 48 cubic metres ☐ 48 square metres ☐ 20 cubic metres ☐ 20 square metres

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1 210 square centimetres

3 30 square metres

5 184 square centimetres

7 256 square centimetres

9 108 cubic centimetres

2 560 cubic centimetres

4 126 cubic centimetres

6 40 cubic metres

8 42 cubic centimetres

10 48 square metres