

Solve surface area and volume problems in context

NAME	DATE	SCORE / 10
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- 1** A tank is 6 m long, 4 m wide and 1 m high. How much water fills the tank?
- ☐ 68 cubic metres
 ☐ 68 square metres
 ☐ 24 square metres
 ☐ 24 cubic metres

- 2** A tank is 5 m long, 5 m wide and 2 m high. How much paint covers all six faces of the tank?
- ☐ 50 square metres
 ☐ 50 cubic metres
 ☐ 90 square metres
 ☐ 90 cubic metres

- 3** A box is 9 cm long, 6 cm wide and 2 cm high. How much paint covers all six faces of the box?
- ☐ 108 square centimetres
 ☐ 108 cubic centimetres
 ☐ 168 cubic centimetres
☐ 168 square centimetres

- 4** A box is 4 cm long, 5 cm wide and 6 cm high. How much sand fills the box?
- ☐ 120 square centimetres
 ☐ 148 cubic centimetres
 ☐ 120 cubic centimetres
☐ 148 square centimetres

- 5** A tank is 11 cm long, 8 cm wide and 5 cm high. How much water fills the tank?
- ☐ 366 cubic centimetres
 ☐ 366 square centimetres
 ☐ 440 cubic centimetres
☐ 440 square centimetres

- 6** A box is 10 cm long, 4 cm wide and 5 cm high. How much paper covers all six faces of the box?
- ☐ 200 square centimetres
 ☐ 220 cubic centimetres
 ☐ 220 square centimetres
☐ 200 cubic centimetres

7 A tank is 6 cm long, 5 cm wide and 4 cm high. How much paint covers all six faces of the tank?

- ☐ 120 cubic centimetres ☐ 148 cubic centimetres ☐ 120 square centimetres
☐ 148 square centimetres
-

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

- ☐ 27 cubic metres ☐ 27 square metres ☐ 54 square metres ☐ 54 cubic metres
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9 A box is 7 cm long, 7 cm wide and 7 cm high. How much sand fills the box?

- ☐ 343 cubic centimetres ☐ 343 square centimetres ☐ 294 cubic centimetres
☐ 294 square centimetres
-

10 A tank is 3 m long, 5 m wide and 1 m high. How much paint covers all six faces of the tank?

- ☐ 46 square metres ☐ 46 cubic metres ☐ 15 square metres ☐ 15 cubic metres

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1 24 cubic metres

3 168 square centimetres

5 440 cubic centimetres

7 148 square centimetres

9 343 cubic centimetres

2 90 square metres

4 120 cubic centimetres

6 220 square centimetres

8 54 square metres

10 46 square metres