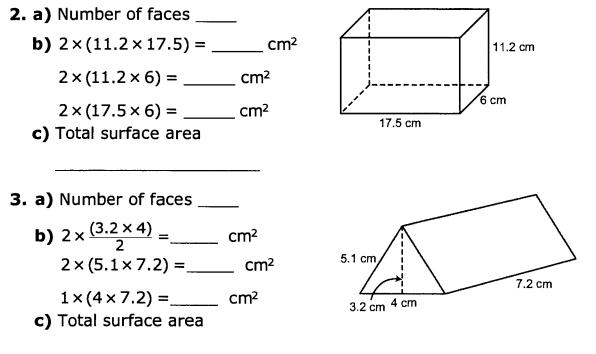
Target F-2 Extra Practice 1

1. Fill in each blank.

To find the total surface area of a 3-D object:

- a) ______ the number of faces.
- **b)** Calculate the ______ of each face.
- c) Find the ______ of the surface areas of the faces.

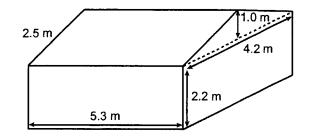
For #2 and #3, calculate the surface area of each prism to the nearest tenth of a centimetre.



- 4. Rahim's dad wants to paint the outside of his garage, including the roof.
 - a) How many sides of the garage

need to be painted? _____
b) Name the two shapes that make up the front and the back side of the garage.

and



c) Calculate the total surface area that needs to be painted. Show your work. Round your answer to the nearest tenth of a metre.

Extra Practice Answers

- 1. count or add; area; sum or total
- **2. a)** 6 **b)** 392.0 cm²; 134.4 cm²; 210.0 cm² **c)** 736.4 cm²
- 3.a) 5
 - **b)** 12.8 cm²; 73.4 cm²; 28.8 cm² **c)** 115 cm²
- 4. a) 6
 - **b**) rectangle; triangle **c**) 72.5 m²

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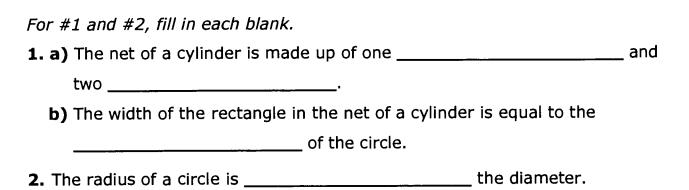
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Target F-2 Extra Practice 2



- **3.** Give the formula for the surface area of a cylinder.
 - S.A.=

4. Estimate the total surface area of each cylinder. Show your work.

ાસ્ટાલામ	di Geli (di	Area of One Chiefe		Area
Example: 2.8 cm	10 cm	$\pi \times r^2 \approx 3 \times (3)^2$ $\approx 3 \times 9$ $\approx 27 \text{ cm}^2$	54 cm ²	180 + 54 = 234 cm ²
a) 5 cm	6 cm			
b) 6.2 cm	12.3 cm			
c) 10.7 cm	17.4 cm			

5. Use the formula for the surface area of a cylinder to calculate the total surface area of each cylinder to the nearest hundredth of a centimetre. Use 3.14 for π . Show your work.

kedlus	1-Gélių	Calculation A = 4 × (m × c) + (m × d× b)	Total Surface Area
Example: 2.8 cm	10 cm	$S.A. = 2 \times (3.14 \times 7.84) + 3.14 \times 5.6 \times 10$ = 49.24 + 175.84	225.08 cm ²
a) 5 cm	6 cm		
b) 6.2 cm	12.3 cm		
c) 10.7 cm	17.4 cm		

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Extra Practice Answers

- 1.a) rectangle, circles **b**) diameter
- 2. half
- **3.** S.A. = $2 \times (\pi \times r^2) + (\pi \times d \times h)$
- 4. Answers may vary. Example:
 a) 75 cm²; 150 cm²; 180 cm²; 330 cm²
 b) 108 cm²; 216 cm²; 360 cm²; 576 cm²
 c) 300 cm²; 600 cm²; 1000 cm²; 1600 cm²
- **5. a)** 345.4 cm² **b)** 720.31 cm²

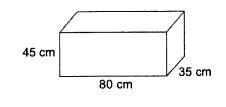
 - **c)** 1888.21 cm²

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Target F-2) Extra Practice 3

Lesson 4.3: Surface Area of a Right Rectangular Prism

- 1. Find the surface area of a rectangular prism measuring 5 m by 8 m by 9 m. Include a diagram.
- 2. Tracy made a stained-glass jewellery box. It measured 20 cm by 12 cm by 8 cm.
 - a) About how much glass did Tracy use?
 - b) One piece of glass has an area of 100 cm² and costs \$3.65. How much did the glass cost?
- 3. The surface area of a cube is 150 cm^2 .
 - a) What is the area of one face of the cube?
 - b) What is the length of one edge of the cube?
- 4. An open aquarium measures 80 cm by 35 cm by 45 cm. What is the surface area of the aquarium?



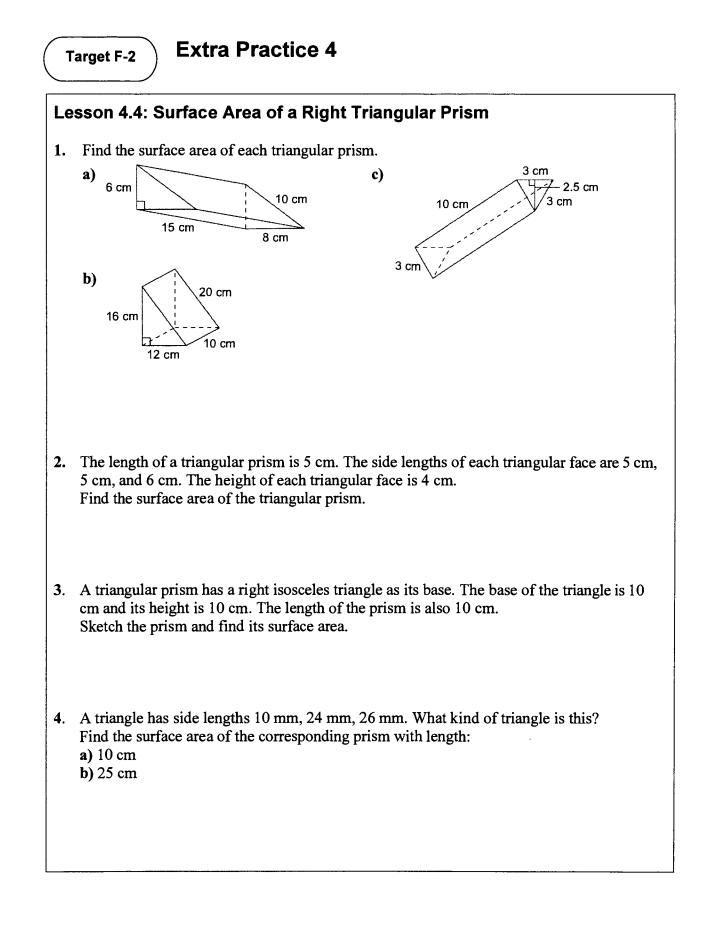
Extra Practice 3 Answers

- 1. 314 m²
- 2. a) 992 cm² b) Tracy needs to buy 10 pieces, so the glass costs: $10 \times $3.65 = 36.50
- **3. a)** 25 cm²
 - b) 5 cm
- 4. 13 150 cm^2

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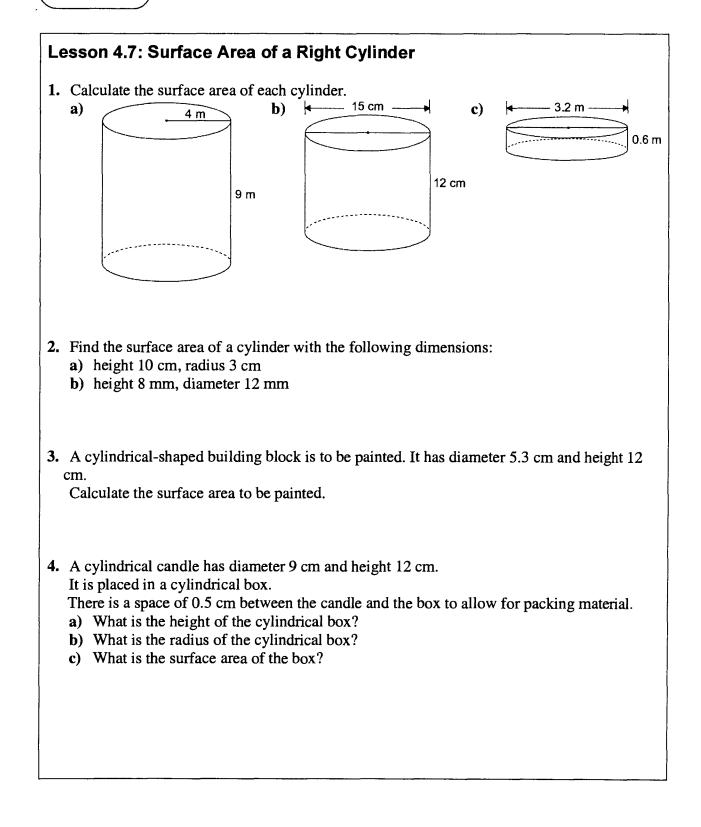
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Extra Practice 4 Answers

- a) 408 cm² 1.
 - 672 cm² b)
 - c) 97.5 cm²
- 2. 104 cm²
- 441.4 cm² 3.
- 4.
- Right trianglea)840 mm²b)1740 mm²



Extra Practice 7



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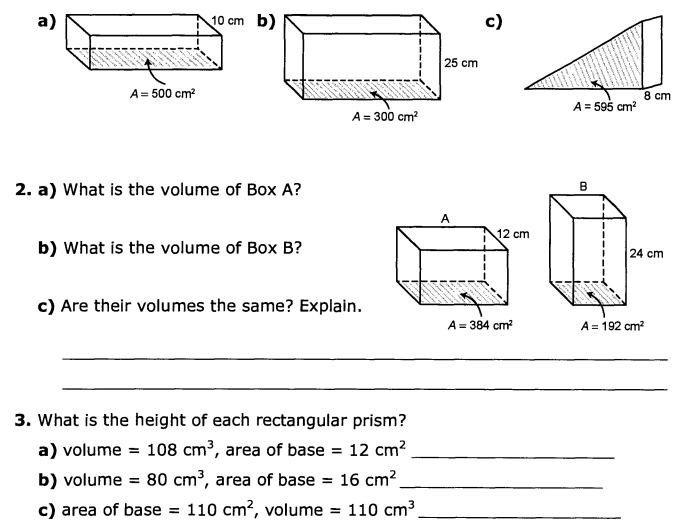
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Extra Practice 7 Answers

- 327 m² 919 cm² 22.1 m² a) b) 1. c)
- 245 cm² 528 mm² a) 2. b)
- 244 cm² 3.
- a) 4.
 - b) c)
- 13 cm 5 cm 565.5 cm²

Target F-3 Extra Practice 1

1. Determine the volume of each rectangular prism.



4. The Canola Oil Company is designing cans for its oil. Their cans hold 1 L, which is 1000 cm³. The area of the base of their can is 80 cm². How tall is the can? Show your answer to one decimal place.

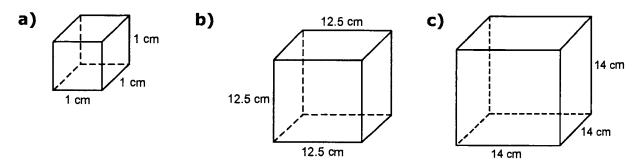
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Extra Practice Answers

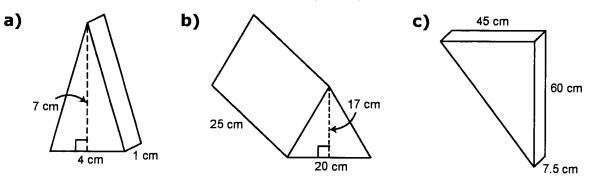
- 1. a) 5000 cm³
 - **b)** 7500 cm³
 - **c)** 4760 cm³
- 2. a) 4608 cm³
 - **b)** 4608 cm³
 - c) It is the same box (same dimensions). The orientation has been changed.
- 3. a) 9 cm
 - **b)** 5 cm
 - **c)** 1 cm
- 4. 12.5 cm

Target F-3 Extra Practice 2

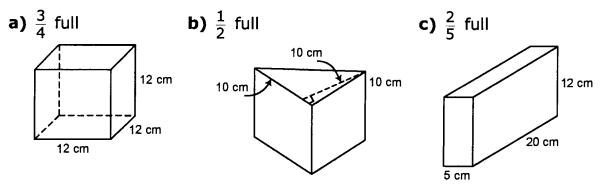
1. Determine the volume of each cube.



2. What is the volume of each right triangular prism?



3. Determine the volume of the contents of each right prism.



- 4. What is the area of the base of each right triangular prism?
 - a) volume = 90 cm^3 , height = 10 cm

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- **b)** volume = 864 cm^3 , height = 6 cm
- c) volume = 1 cm^3 , height = 1 cm

Extra Practice Answers

- **1. a)** 1 cm³ **b)** 1953.125 cm³ **c)** 2744 cm³
- **2.** a) 14 cm³ b) 4250 cm³ c) 10 125 cm³
- **3. a)** 1296 cm³ **b)** 250 cm³ **c)** 480 cm³
- **4. a)** 9 cm² **b)** 144 cm² **c)** 1 cm²