



**THIRD SPACE  
LEARNING**

# Triangular Prism Worksheet

**Geometry**

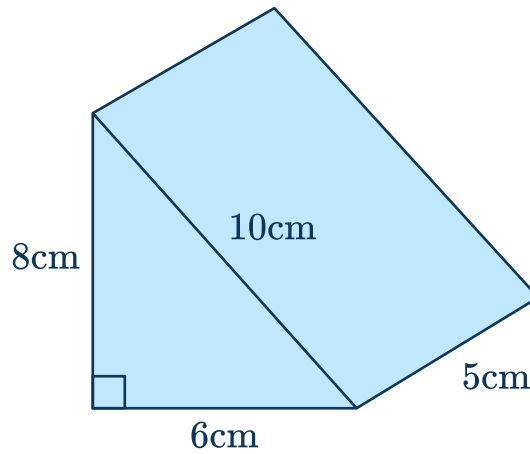
**Grades 6 to 8**

## Questions

Name: .....

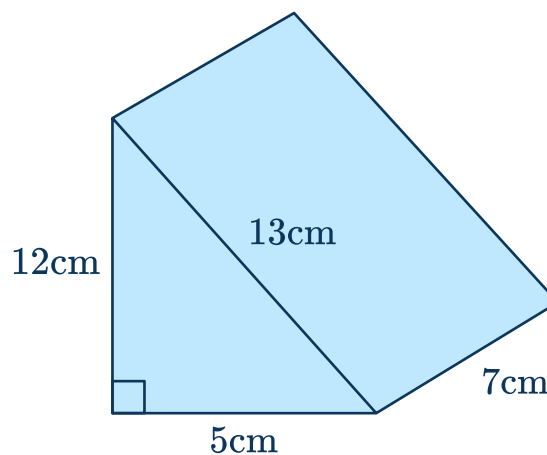
Date: .....

- 1 Calculate the surface area of the triangular prism.



Answer

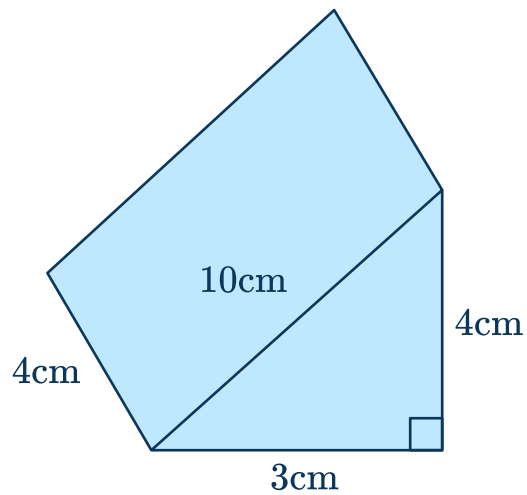
- 2 Find the surface area of the triangular prism.



Answer

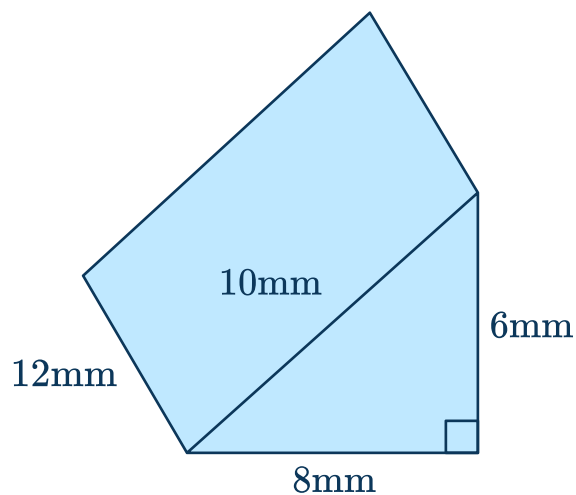
## Triangular Prism Worksheet | Grades 6 to 8

- 3 Calculate the surface area of a triangular prism.



Answer

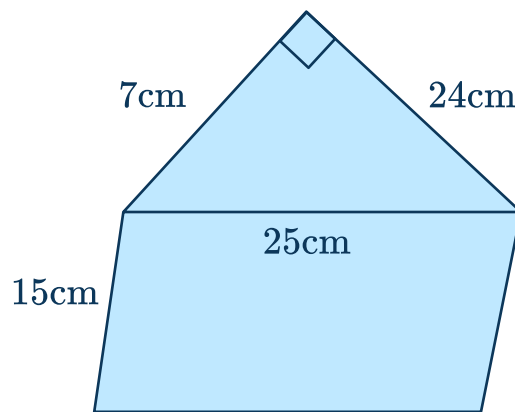
- 4 Find the surface area of this triangular prism.



Answer

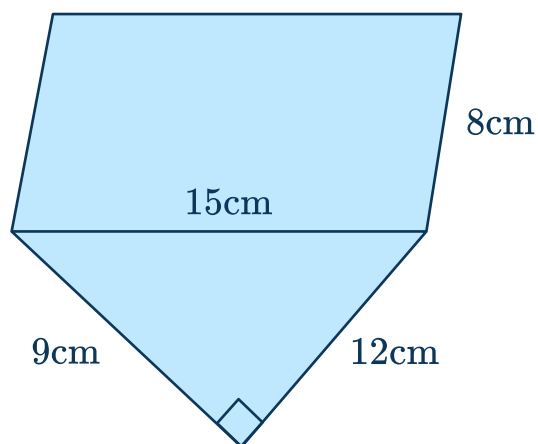
## Triangular Prism Worksheet | Grades 6 to 8

- 5 Calculate the surface area of the triangular prism.



Answer

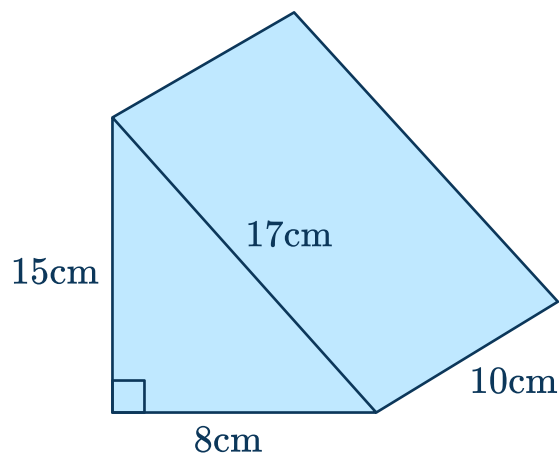
- 6 Find the surface area of this triangular prism.



Answer

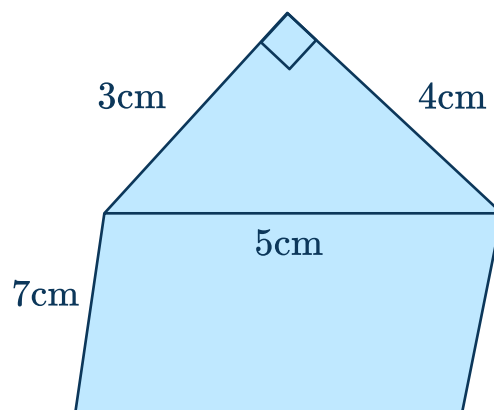
## Triangular Prism Worksheet | Grades 6 to 8

- 7 Calculate the surface area of a triangular prism.



Answer

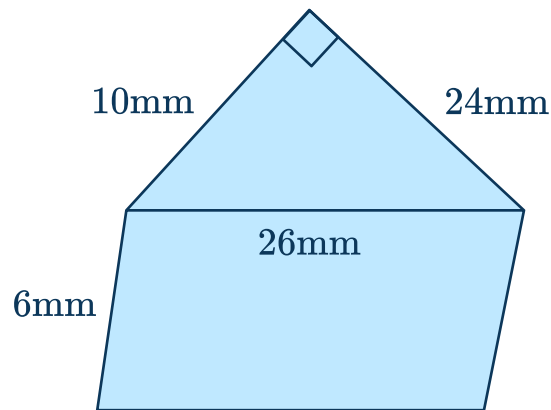
- 8 Find the surface area of this triangular prism.



Answer

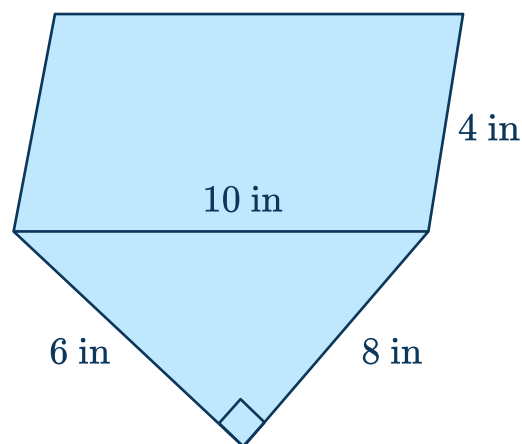
## Triangular Prism Worksheet | Grades 6 to 8

- 9 Calculate the surface area of a triangular prism.



Answer

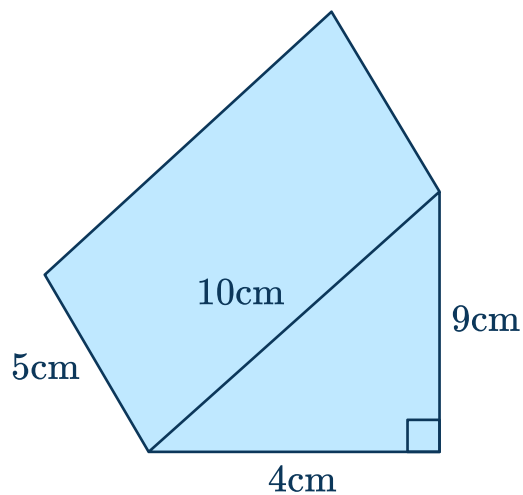
- 10 Find the surface area of this triangular prism.



Answer

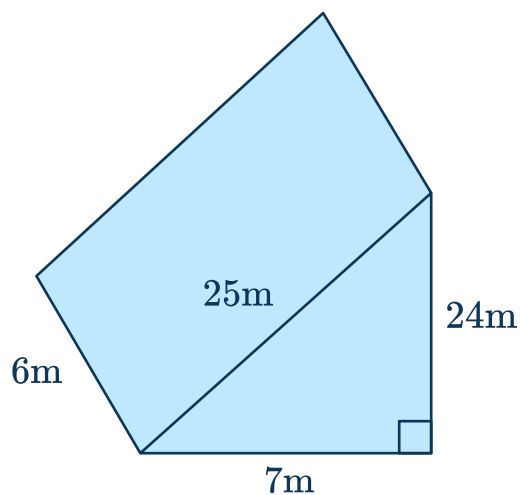
## Triangular Prism Worksheet | Grades 6 to 8

- 11 Calculate the surface area of a triangular prism.



Answer

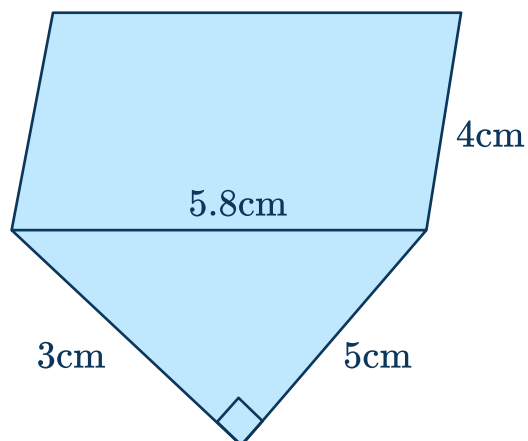
- 12 Find the surface area of this triangular prism.



Answer

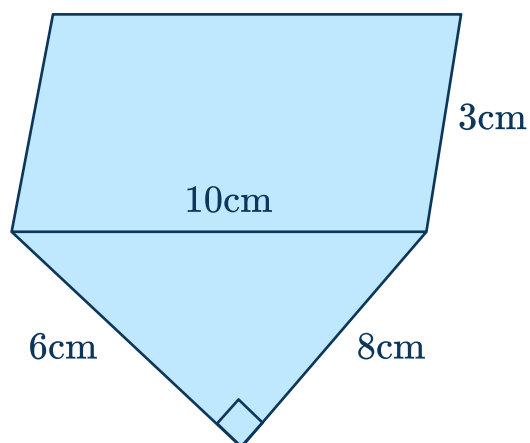
## Triangular Prism Worksheet | Grades 6 to 8

- 13 Calculate the surface area of a triangular prism.



Answer

- 14 Find the surface area of this triangular prism.

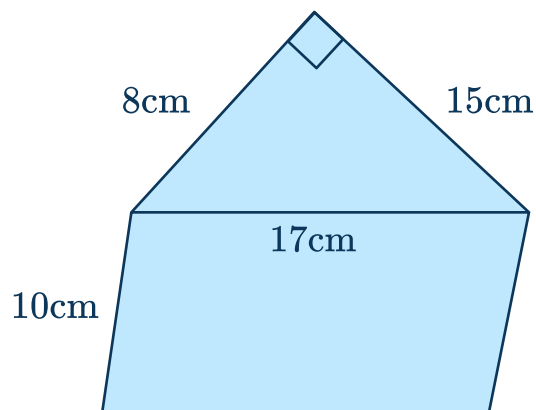


Answer



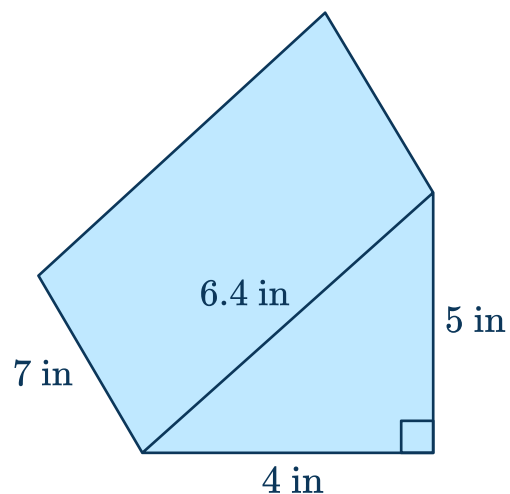
## Triangular Prism Worksheet | Grades 6 to 8

- 15 Calculate the surface area of a triangular prism.



Answer

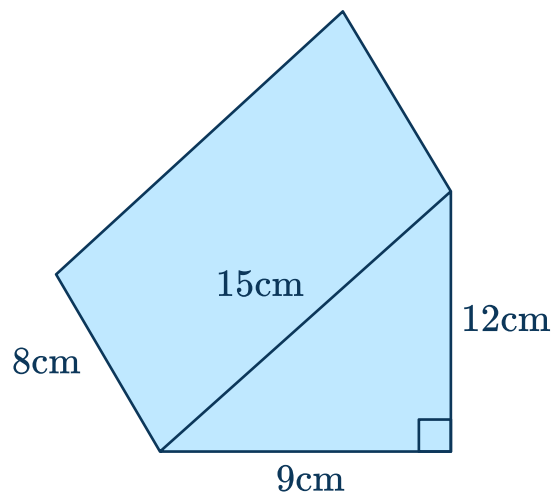
- 16 Find the surface area of this triangular prism.



Answer

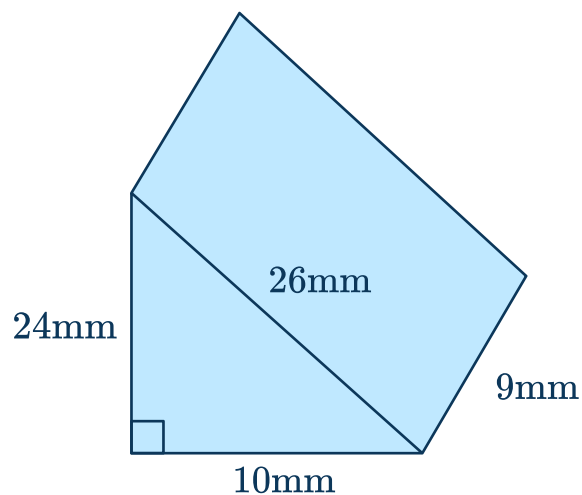
## Triangular Prism Worksheet | Grades 6 to 8

- 17 Calculate the surface area of a triangular prism.



Answer

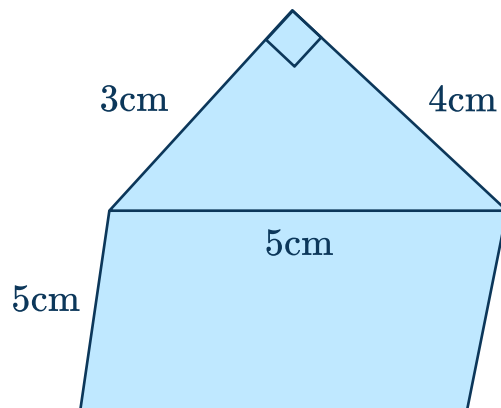
- 18 Find the surface area of this triangular prism.



Answer

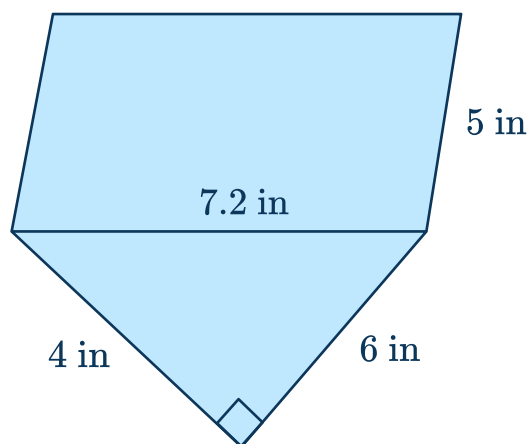
## Triangular Prism Worksheet | Grades 6 to 8

- 19 Calculate the surface area of a triangular prism.



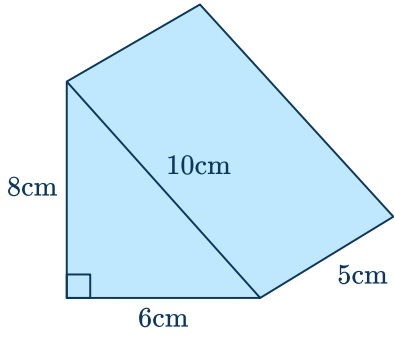
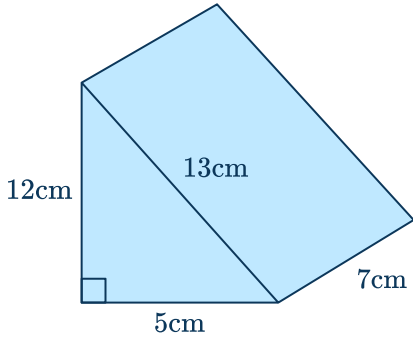
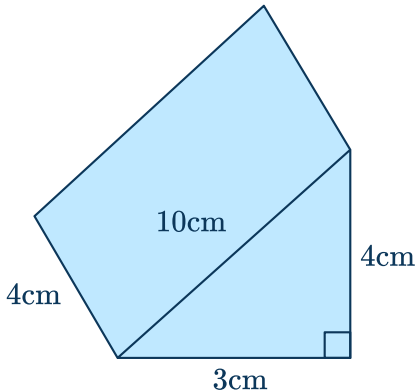
Answer

- 20 Find the surface area of this triangular prism.

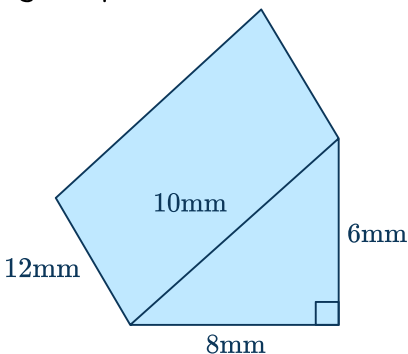
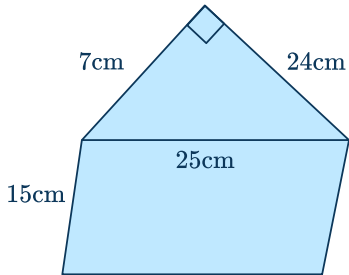
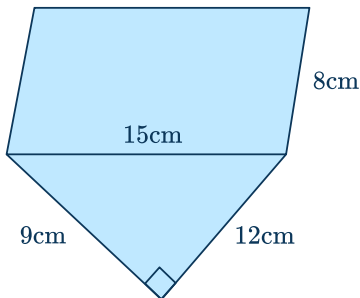
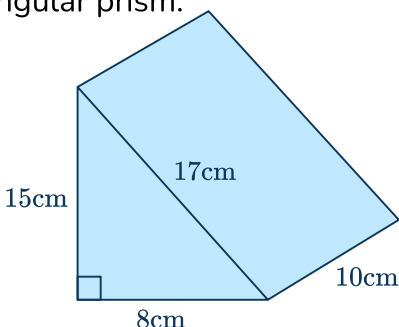


Answer

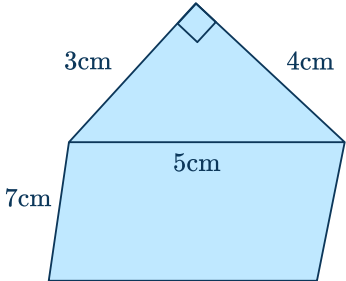
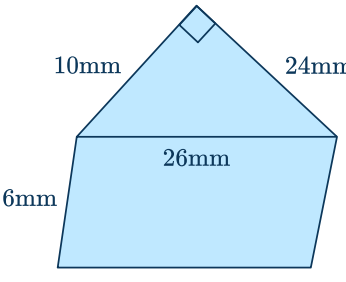
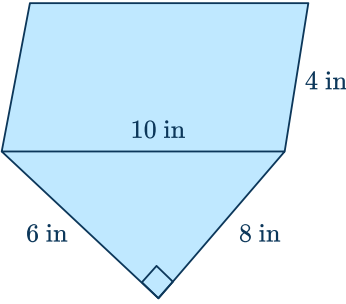
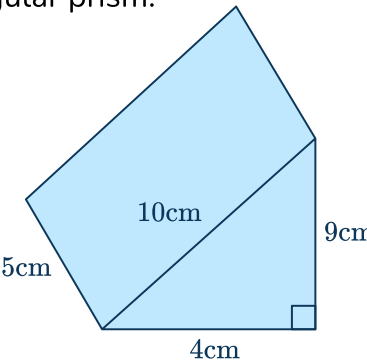
# Answers

Question number	Question	Answers	Standard
1	<p>Calculate the surface area of the triangular prism.</p> 	<p>Area of triangular faces  <math>= 2 \times (6 \times 8 \div 2) = 48 \text{ cm}^2</math></p> <p>Area of rectangular faces  <math>= (6 \times 5) + (8 \times 5) + (10 \times 5) = 30 + 40 + 50 = 120 \text{ cm}^2</math></p> <p>Total surface area  <math>= 48 + 120 = 168 \text{ cm}^2</math></p>	7.G.B.6
2	<p>Find the surface area of the triangular prism.</p> 	<p>Area of triangular faces  <math>= 2 \times (5 \times 12 \div 2) = 60 \text{ m}^2</math></p> <p>Area of rectangular faces  <math>= (5 \times 7) + (12 \times 7) + (13 \times 7) = 35 + 84 + 91 = 210 \text{ m}^2</math></p> <p>Total surface area  <math>= 60 + 210 = 270 \text{ cm}^2</math></p>	7.G.B.6
3	<p>Calculate the surface area of a triangular prism.</p> 	<p>Area of triangular faces  <math>= 2 \times (4 \times 3 \div 2) = 12 \text{ cm}^2</math></p> <p>Area of rectangular faces  <math>= (4 \times 4) + (3 \times 4) + (10 \times 4) = 16 + 12 + 40 = 68 \text{ cm}^2</math></p> <p>Total surface area  <math>= 12 + 68 = 80 \text{ cm}^2</math></p>	7.G.B.6

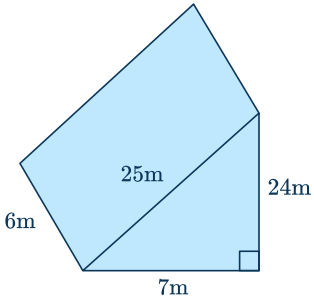
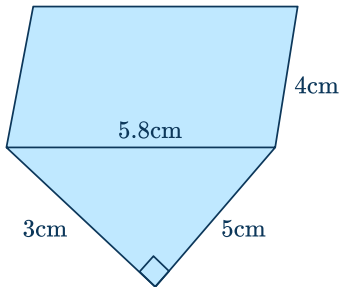
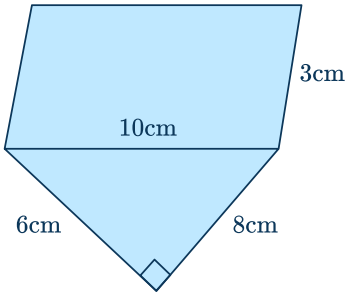
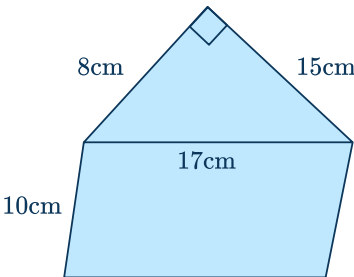
# Triangular Prism Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
4	Find the surface area of this triangular prism. 	Area of triangular faces = $2 \times (6 \times 8 \div 2) = 48 \text{ mm}^2$ Area of rectangular faces = $(6 \times 12) + (8 \times 12) + (10 \times 12) = 72 + 96 + 120 = 288 \text{ mm}^2$ Total surface area = $48 + 288 = 336 \text{ mm}^2$	7.G.B.6
5	Calculate the surface area of the triangular prism. 	Area of triangular faces = $2 \times (7 \times 24 \div 2) = 168 \text{ cm}^2$ Area of rectangular faces = $(7 \times 15) + (24 \times 15) + (25 \times 15) = 105 + 360 + 375 = 840 \text{ cm}^2$ Total surface area = $168 + 840 = 1008 \text{ cm}^2$	7.G.B.6
6	Find the surface area of this triangular prism. 	Area of triangular faces = $2 \times (9 \times 12 \div 2) = 108 \text{ cm}^2$ Area of rectangular faces = $(9 \times 8) + (12 \times 8) + (15 \times 8) = 72 + 96 + 120 = 288 \text{ cm}^2$ Total surface area = $108 + 288 = 396 \text{ cm}^2$	7.G.B.6
7	Calculate the surface area of a triangular prism. 	Area of triangular faces = $2 \times (8 \times 15 \div 2) = 120 \text{ m}^2$ Area of rectangular faces = $(8 \times 10) + (15 \times 10) + (17 \times 10) = 80 + 150 + 170 = 400 \text{ m}^2$ Total surface area = $120 + 400 = 520 \text{ m}^2$	7.G.B.6

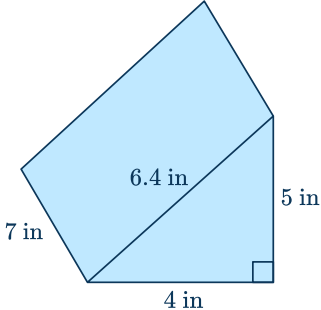
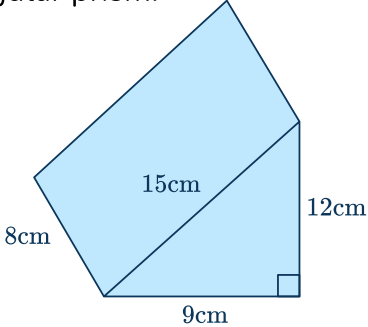
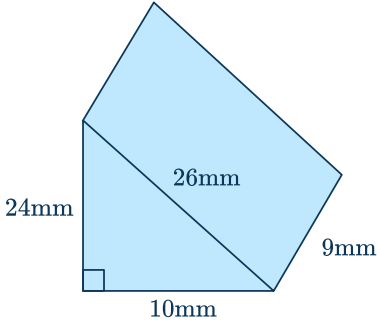
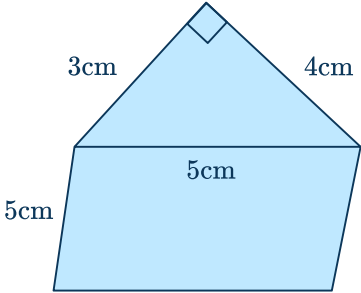
# Triangular Prism Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
8	Find the surface area of this triangular prism. 	Area of triangular faces = $2 \times (3 \times 4 \div 2) = 12 \text{ cm}^2$ Area of rectangular faces = $(3 \times 7) + (4 \times 7) + (5 \times 7) = 21 + 28 + 35 = 84 \text{ cm}^2$ Total surface area = $12 + 84 = 96 \text{ cm}^2$	7.G.B.6
9	Calculate the surface area of a triangular prism. 	Area of triangular faces = $2 \times (10 \times 24 \div 2) = 240 \text{ mm}^2$ Area of rectangular faces = $(10 \times 6) + (24 \times 6) + (26 \times 6) = 60 + 144 + 156 = 360 \text{ mm}^2$ Total surface area = $240 + 360 = 600 \text{ mm}^2$	7.G.B.6
10	Find the surface area of this triangular prism. 	Area of triangular faces = $2 \times (6 \times 8 \div 2) = 48 \text{ in}^2$ Area of rectangular faces = $(6 \times 4) + (8 \times 4) + (10 \times 4) = 24 + 32 + 40 = 96 \text{ in}^2$ Total surface area = $48 + 96 = 144 \text{ in}^2$	7.G.B.6
11	Calculate the surface area of a triangular prism. 	Area of triangular faces = $2 \times (4 \times 9 \div 2) = 36 \text{ cm}^2$ Area of rectangular faces = $(4 \times 5) + (9 \times 5) + (10 \times 5) = 20 + 45 + 50 = 115 \text{ cm}^2$ Total surface area = $36 + 115 = 151 \text{ cm}^2$	7.G.B.6

# Triangular Prism Worksheet | Grades 6 to 8 | Answers

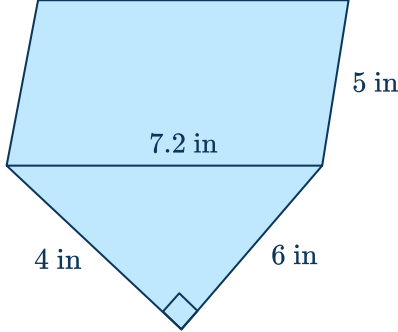
Question number	Question	Answers	Standard
12	Find the surface area of this triangular prism. 	Area of triangular faces $= 2 \times (7 \times 24 \div 2) = 168 \text{ m}^2$ Area of rectangular faces $= (7 \times 6) + (24 \times 6) + (25 \times 6) = 42 + 144 + 150 = 336 \text{ m}^2$ Total surface area $= 168 + 336 = 504 \text{ m}^2$	7.G.B.6
13	Calculate the surface area of a triangular prism. 	Area of triangular faces $= 2 \times (3 \times 5 \div 2) = 15 \text{ cm}^2$ Area of rectangular faces $= (3 \times 4) + (5 \times 4) + (5.8 \times 4) = 12 + 20 + 23.2 = 55.2 \text{ cm}^2$ Total surface area $= 15 + 55.2 = 70.2 \text{ cm}^2$	7.G.B.6
14	Find the surface area of this triangular prism. 	Area of triangular faces $= 2 \times (6 \times 8 \div 2) = 48 \text{ cm}^2$ Area of rectangular faces $= (6 \times 3) + (8 \times 3) + (10 \times 3) = 18 + 24 + 30 = 72 \text{ cm}^2$ Total surface area $= 48 + 72 = 120 \text{ cm}^2$	7.G.B.6
15	Calculate the surface area of a triangular prism. 	Area of triangular faces $= 2 \times (8 \times 15 \div 2) = 120 \text{ cm}^2$ Area of rectangular faces $= (8 \times 10) + (15 \times 10) + (17 \times 10) = 80 + 150 + 170 = 400 \text{ cm}^2$ Total surface area $= 120 + 400 = 520 \text{ cm}^2$	7.G.B.6

## Triangular Prism Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
16	Find the surface area of this triangular prism. 	Area of triangular faces = $2 \times (4 \times 5 \div 2) = 20 \text{ in}^2$ Area of rectangular faces = $(4 \times 7) + (5 \times 7) + (6.4 \times 7) = 28 + 35 + 44.8 = 107.8 \text{ in}^2$ Total surface area = $20 + 107.8 = 127.8 \text{ in}^2$	7.G.B.6
17	Calculate the surface area of a triangular prism. 	Area of triangular faces = $2 \times (9 \times 12 \div 2) = 108 \text{ cm}^2$ Area of rectangular faces = $(9 \times 8) + (12 \times 8) + (15 \times 8) = 72 + 96 + 120 = 288 \text{ cm}^2$ Total surface area = $108 + 288 = 396 \text{ cm}^2$	7.G.B.6
18	Find the surface area of this triangular prism. 	Area of triangular faces = $2 \times (10 \times 24 \div 2) = 240 \text{ mm}^2$ Area of rectangular faces = $(10 \times 9) + (24 \times 9) + (26 \times 9) = 90 + 216 + 234 = 540 \text{ mm}^2$ Total surface area = $240 + 540 = 780 \text{ mm}^2$	7.G.B.6
19	Calculate the surface area of a triangular prism. 	Area of triangular faces = $2 \times (3 \times 4 \div 2) = 12 \text{ cm}^2$ Area of rectangular faces = $(3 \times 5) + (4 \times 5) + (5 \times 5) = 15 + 20 + 25 = 60 \text{ cm}^2$ Total surface area = $12 + 60 = 72 \text{ cm}^2$	7.G.B.6



## Triangular Prism Worksheet | Grades 6 to 8 | Answers




Question number	Question	Answers	Standard
20	<p>Find the surface area of this triangular prism.</p> 	<p>Area of triangular faces  <math>= 2 \times (4 \times 6 \div 2) = 24 \text{ in}^2</math>            Area of rectangular faces  <math>= (4 \times 5) + (6 \times 5) + (7.2 \times 5) = 20 + 30 + 36 = 86 \text{ in}^2</math>            Total surface area  <math>= 24 + 86 = 110 \text{ in}^2</math></p>	7.G.B.6

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