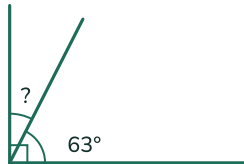




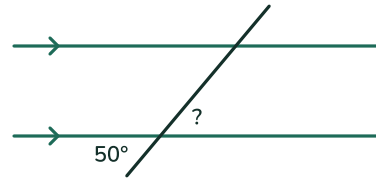
Grade 8 Geometry & Measurement Unit Test

Name _____ Date _____ Score _____ / 20

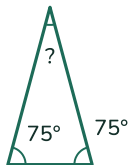
Part A • Angles



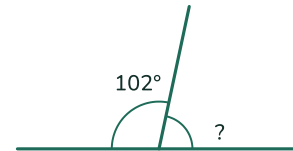
01 Find the missing angle = _____



02 Parallel lines. Find the missing angle = _____



03 Find the missing angle = _____

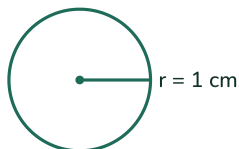


04 Find the missing angle = _____

Part B • Circles: Area & Circumference

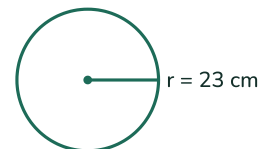
Find each measurement. Use $\pi \approx 3.14$.

05 Area =



Answer: _____

06 Area =



Answer: _____

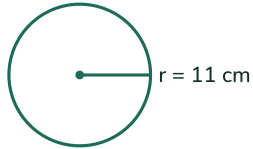


Grade 8 Geometry & Measurement Unit Test

Part B · Circles: Area & Circumference (continued)

07

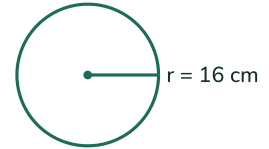
Circumference =



Answer: _____

08

Circumference =

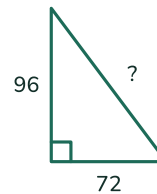


Answer: _____

Part C · Pythagorean Theorem



09 Find the missing leg = _____



10 Find the hypotenuse = _____

11 A rectangular park is 80 m long and 60 m wide. How far is it straight across, corner to corner?

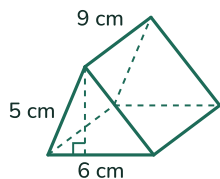
Answer: _____

12 A 15 m ladder leans against a wall. Its foot is 9 m from the wall. How high up the wall does it reach?

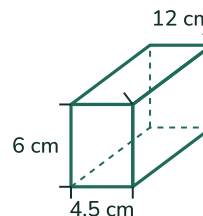
Answer: _____

Grade 8 Geometry & Measurement Unit Test

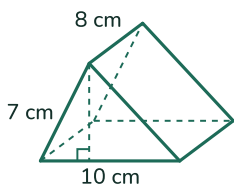
Part D • Volume



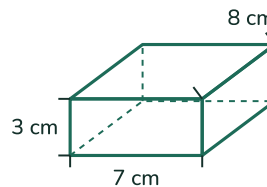
- 13 Volume of the triangular prism = _____



- 14 Find the volume = _____



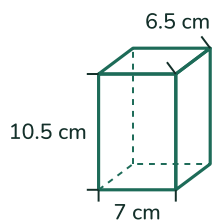
- 15 Volume of the triangular prism = _____



- 16 Find the volume = _____

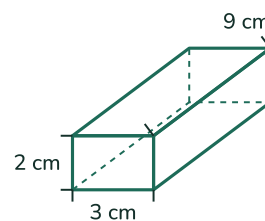
Part E • Surface Area

- 17 Find the surface area =



Answer: _____

- 18 Find the surface area =

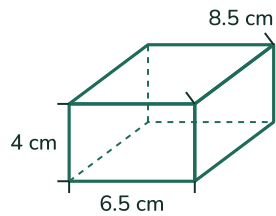


Answer: _____

Grade 8 Geometry & Measurement Unit Test

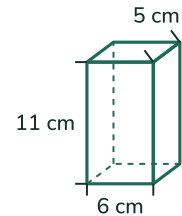
Part E · Surface Area (continued)

19 Find the surface area =



Answer: _____

20 Find the surface area =

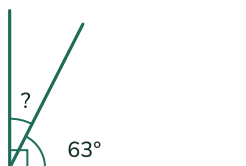


Answer: _____

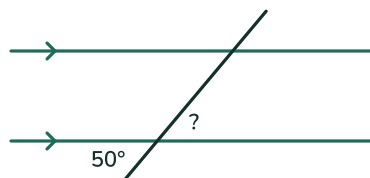


Grade 8 Geometry & Measurement Unit Test (Answer Key)

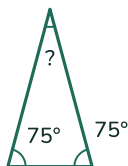
Part A · Angles



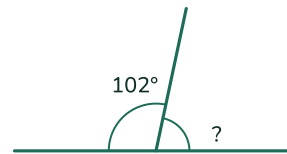
01 Find the missing angle = **27°**



02 Parallel lines. Find the missing angle = **50°**



03 Find the missing angle = **30°**

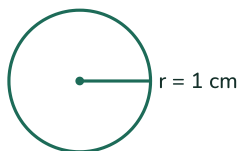


04 Find the missing angle = **78°**

Part B · Circles: Area & Circumference

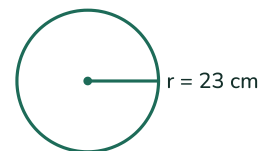
Find each measurement. Use $\pi \approx 3.14$.

05 Area =



3.14 cm²

06 Area =



1661.06 cm²

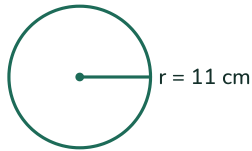


Grade 8 Geometry & Measurement Unit Test (Answer Key)

Part B • Circles: Area & Circumference (continued)

07

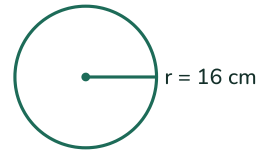
Circumference =



69.08 cm

08

Circumference =



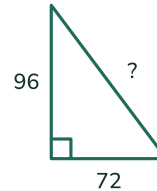
100.48 cm

Part C • Pythagorean Theorem



09 Find the missing leg =

7



10 Find the hypotenuse =

120

11 A rectangular park is 80 m long and 60 m wide. How far is it straight across, corner to corner?

100 m

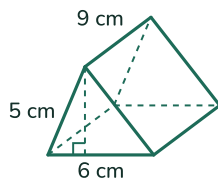
12 A 15 m ladder leans against a wall. Its foot is 9 m from the wall. How high up the wall does it reach?

12 m

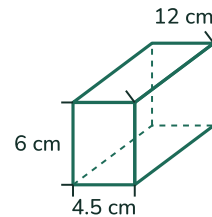


Grade 8 Geometry & Measurement Unit Test (Answer Key)

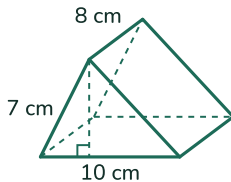
Part D · Volume



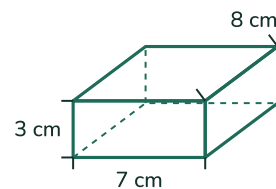
- 13 Volume of the triangular prism = **135 cm^3**



- 14 Find the volume = **324 cm^3**



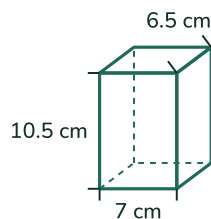
- 15 Volume of the triangular prism = **280 cm^3**



- 16 Find the volume = **168 cm^3**

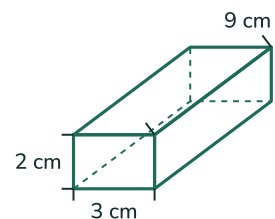
Part E · Surface Area

- 17 Find the surface area =



374.5 cm^2

- 18 Find the surface area =



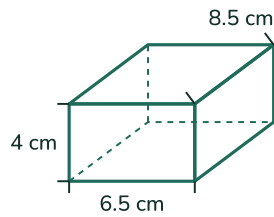
102 cm^2



Grade 8 Geometry & Measurement Unit Test (Answer Key)

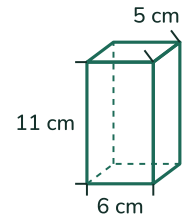
Part E • Surface Area (continued)

19 Find the surface area =



230.5 cm²

20 Find the surface area =



302 cm²