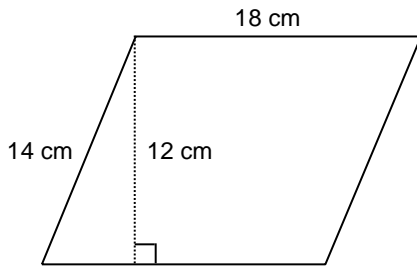


Grade 7 Math
Triangles and Parallelograms

Name: _____

Multiple Choice

____ 1. Find the area of this parallelogram.



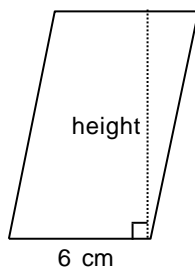
- a. 252 cm^2 b. 216 cm^2 c. 168 cm^2 d. 64 cm^2

____ 2. Find the area of a parallelogram with base 100 cm and height 42 cm.

- a. 4200 cm^2 b. 8400 cm^2 c. 284 cm^2 d. 142 cm^2

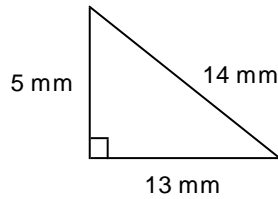
____ 3. Use the area to find the height.

$A = 48 \text{ cm}^2$



- a. 42 cm b. 20 cm c. 24 cm d. 8 cm

___ 4. Find the area of this right triangle.

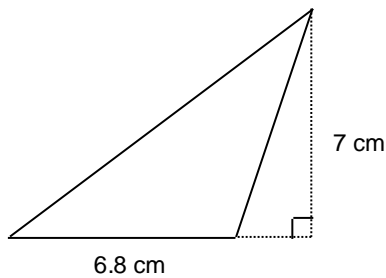


- a. 32 mm^2 b. 65 mm^2 c. 32.5 mm^2 d. 227.5 mm^2

___ 5. The student council is making 6 pennants to promote school spirit. Each pennant is in the shape of a right triangle 20 cm high and 60 cm long. What is the total area of the 6 pennants?

- a. 7200 cm^2 b. 3600 cm^2 c. 1200 cm^2 d. 2400 cm^2

___ 6. Find the area of this triangle.

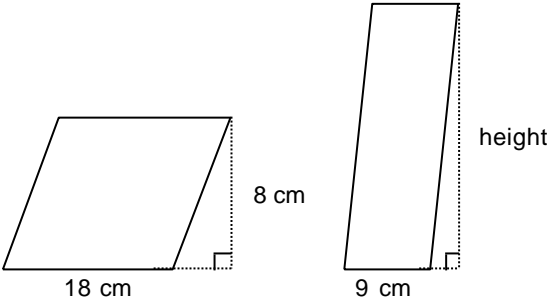


- a. 47.6 cm^2 b. 13.8 cm^2 c. 23.8 cm^2 d. 95.2 cm^2

___ 7. A triangle has area 64 m^2 and height 16 m. What is the length of the base?

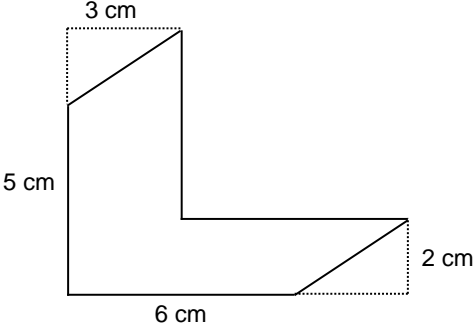
- a. 8 m b. 16 m c. 6 m d. 4 m

8. Find the missing height if the parallelograms have the same area



Missing height = _____ cm

9. Find the area.



Triangles and Parallelograms Answer Section

MULTIPLE CHOICE

1. ANS: B PTS: 1 DIF: Moderate REF: 4.3 Area of a Parallelogram
LOC: 7.SS2 TOP: Shape and Space (Measurement) KEY:
Procedural Knowledge
2. ANS: A PTS: 1 DIF: Easy REF: 4.3 Area of a Parallelogram
LOC: 7.SS2 TOP: Shape and Space (Measurement) KEY:
Procedural Knowledge
3. ANS: D PTS: 1 DIF: Moderate REF: 4.3 Area of a Parallelogram
LOC: 7.SS2 TOP: Shape and Space (Measurement) KEY:
Procedural Knowledge
4. ANS: C PTS: 1 DIF: Easy REF: 4.4 Area of a Triangle
LOC: 7.SS2 TOP: Shape and Space (Measurement) KEY:
Procedural Knowledge
5. ANS: B PTS: 1 DIF: Moderate REF: 4.4 Area of a Triangle
LOC: 7.SS2 TOP: Shape and Space (Measurement) KEY:
Problem-solving Skills
6. ANS: C PTS: 1 DIF: Moderate REF: 4.4 Area of a Triangle
LOC: 7.SS2 TOP: Shape and Space (Measurement) KEY:
Procedural Knowledge
7. ANS: A PTS: 1 DIF: Moderate REF: 4.4 Area of a Triangle
LOC: 7.SS2 TOP: Shape and Space (Measurement) KEY:
Procedural Knowledge

SHORT ANSWER

8. ANS:
16 cm

PTS: 1

DIF: Moderate

REF: 4.3 Area of a Parallelogram

LOC:

7.SS2

TOP: Shape and Space (Measurement)

KEY:

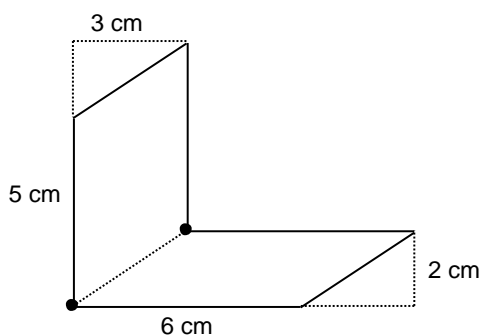
Problem-solving Skills

PROBLEM

9. ANS:

Answers may vary.

Sample: Draw a line to divide the figure into 2 parallelograms.



Find the area of each parallelogram using the formula $A = bh$.

The area of the figure is 27 cm^2 .

PTS: 1

DIF: Difficult

REF: 4.3 Area of a Parallelogram

LOC:

7.SS2

TOP: Shape and Space (Measurement)

KEY:

Communication