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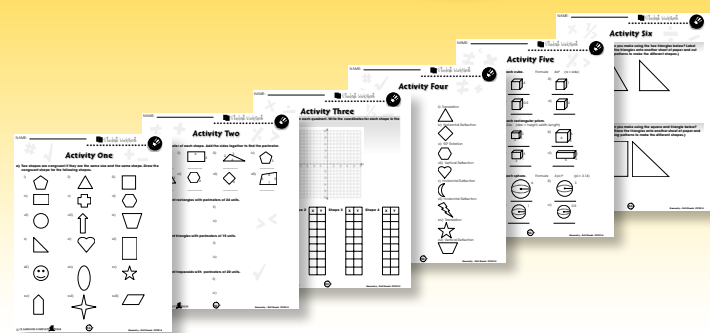
## EASY MARKING™ ANSWER KEY ..... 27

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✓ **6 BONUS Activity Pages!** Additional worksheets for your students

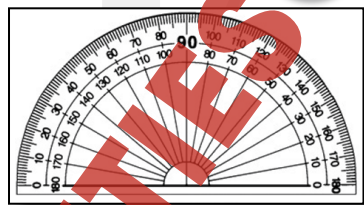
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**1a) Use a protractor to measure each angle.**



Ex:  $120^\circ$

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

iv) \_\_\_\_\_

v) \_\_\_\_\_

vi) \_\_\_\_\_

vii) \_\_\_\_\_

viii) \_\_\_\_\_

ix) \_\_\_\_\_

x) \_\_\_\_\_

xi) \_\_\_\_\_

xii) \_\_\_\_\_

xiii) \_\_\_\_\_

xiv) \_\_\_\_\_

xv) \_\_\_\_\_

xvi) \_\_\_\_\_

xvii) \_\_\_\_\_

**Reflection** Why would an architect or engineer need to know how to measure angles?

\_\_\_\_\_

\_\_\_\_\_



**13a) Identify each type of line as a line, line segment, or ray.**

**Line:** a straight line that goes on forever in both directions  
**Line segment:** part of a line that has two endpoints  
**Ray:** a straight line that goes on forever in one direction

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

**b) Identify each pair of lines below as parallel, perpendicular, skew, or intersecting.**

**Parallel:** lines that maintain the same distance apart and never cross  
**Perpendicular:** lines that cross at a  $90^\circ$  angle  
**Skew:** lines that are not parallel and never cross  
**Intersecting:** lines that cross, but not at a  $90^\circ$  angle

Ex: parallel

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

iv) \_\_\_\_\_

v) \_\_\_\_\_

vi) \_\_\_\_\_

vii) \_\_\_\_\_

viii) \_\_\_\_\_

**c) Draw the following types of lines.**

Ex: **Parallel** i) Intersecting ii) Skew \_\_\_\_\_

iii) Perpendicular iv) Skew v) Parallel \_\_\_\_\_

vi) Intersecting vii) Perpendicular viii) Intersecting \_\_\_\_\_



**5a) Find the area of each quadrilateral.**

Formula: Area = base x height

Ex: base = 3 Area =  $3 \times 3$   
 height = 3 Area = 9 units square

i) Area = \_\_\_\_\_

ii) Area = \_\_\_\_\_

iii) Area = \_\_\_\_\_

iv) Area = \_\_\_\_\_

v) Area = \_\_\_\_\_

vi) Area = \_\_\_\_\_

vii) Area = \_\_\_\_\_

viii) Area = \_\_\_\_\_

ix) Area = \_\_\_\_\_

x) Area = \_\_\_\_\_

xi) Area = \_\_\_\_\_

xii) Area = \_\_\_\_\_

xiii) Area = \_\_\_\_\_

xiv) Area = \_\_\_\_\_

xv) Area = \_\_\_\_\_

**Explore With Technology** With the help of an adult, use the Internet to find Web Sites that find the area of different and unusual shapes. What unusual shapes did you find? How does the formula to find the area compare to that of squares and rectangles?



**12a) Find the diameter for each circle.**

Formulas: diameter =  $2 \times$  radius  
 diameter = circumference  $\div \pi$  ( $\pi = 3.14$ )

Ex: **Circle with radius of 3.** Diameter =  $2 \times 3$   
 = 6 units

i) Circle with circumference of 6.

ii) Circle with radius of 5.

iii) Circle with circumference of 10.

iv) Circle with circumference of 12.

v) Circle with a radius of 4.

**b) Find the radius for each circle.** Formula: radius = diameter  $\div 2$

i) Circle with diameter of 3.

ii) Circle with diameter of 4.

iii) Circle with a diameter of 5.

iv) Circle with a diameter of 2.

v) Circle with a diameter of 3.3.

vi) Circle with a diameter of 4.1.

**c) Find the circumference for each circle.** Formulas: circumference =  $2 \pi \times$  radius  
 circumference =  $\pi \times$  diameter ( $\pi = 3.14$ )

i) Circle with a diameter of 2.

ii) Circle with a diameter of 6.

iii) Circle with a diameter of 8.

iv) Circle with a radius of 1.

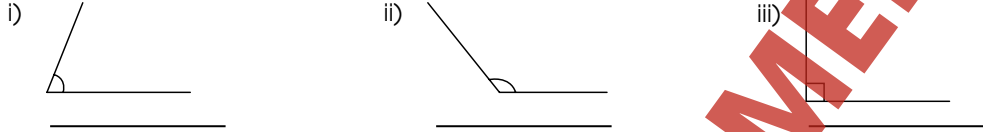
v) Circle with a radius of 3.

vi) Circle with a radius of 5

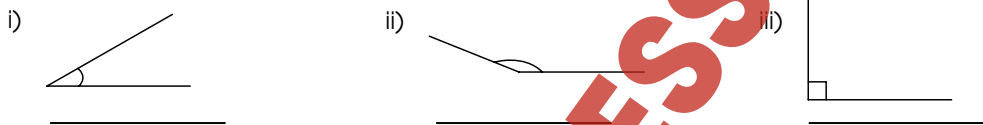


### Review A

a) Measure each angle.



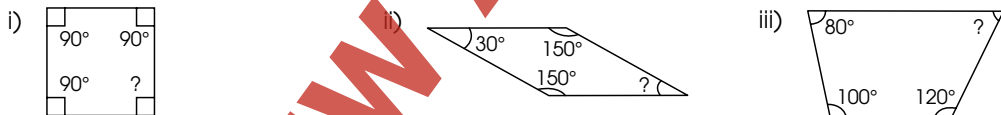
b) Identify each type of angle as acute, right, or obtuse.



c) Draw each angle.

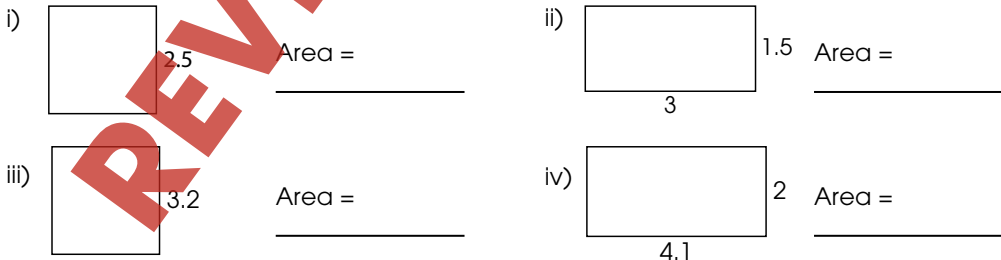
- i) 50 degree angle ii) 95 degree angle iii) 40 degree angle

d) Find the missing angle.



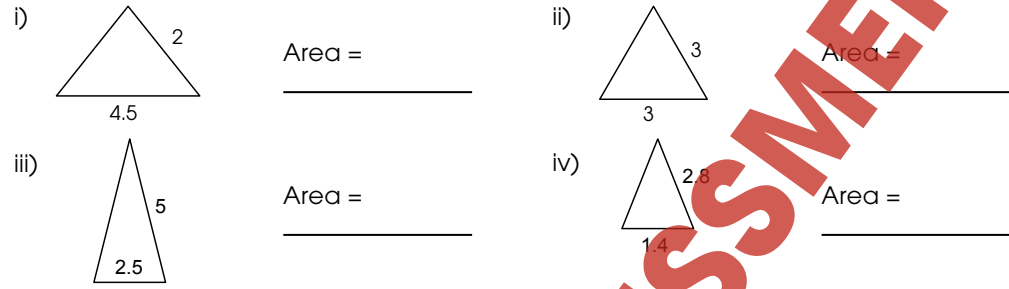
The missing angle is \_\_\_\_\_° The missing angle is \_\_\_\_\_° The missing angle is \_\_\_\_\_°

e) Find the area of each shape.

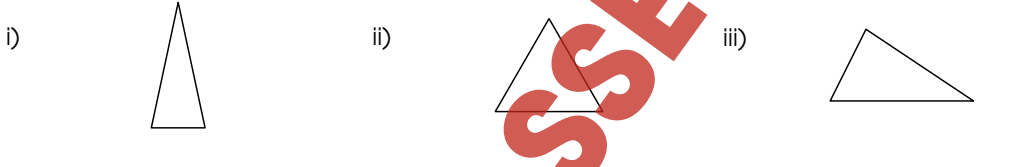


### Review B

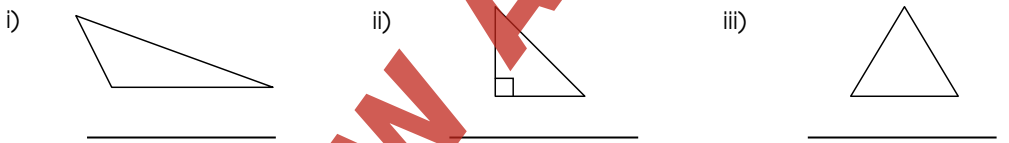
a) Find the area of each triangle.



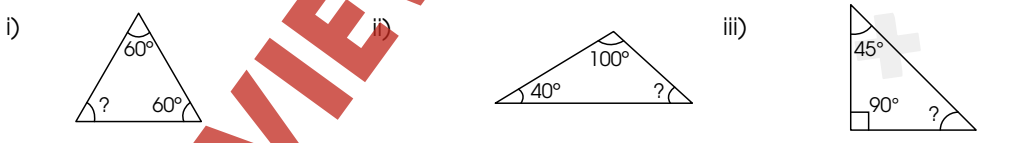
b) Describe each triangle by its sides as isosceles, scalene, or equilateral.



c) Describe each triangle by its angles as acute, right, or obtuse.

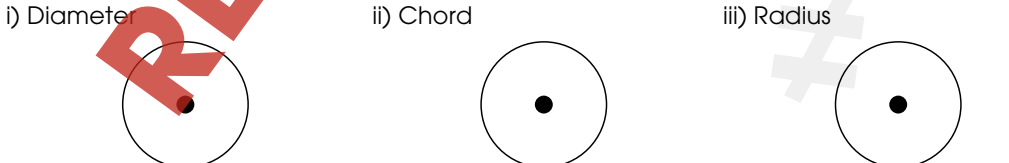


d) Find the missing angle.



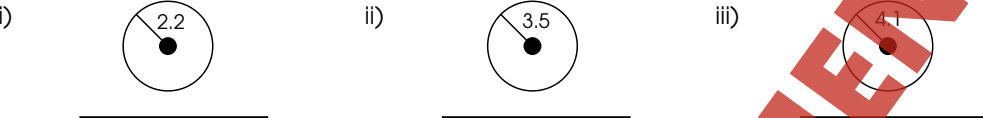
The missing angle is \_\_\_\_\_° The missing angle is \_\_\_\_\_° The missing angle is \_\_\_\_\_°

e) Draw the line on each circle.

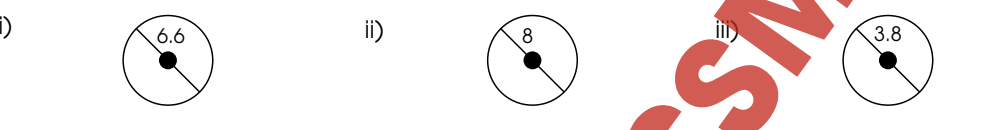


### Review C

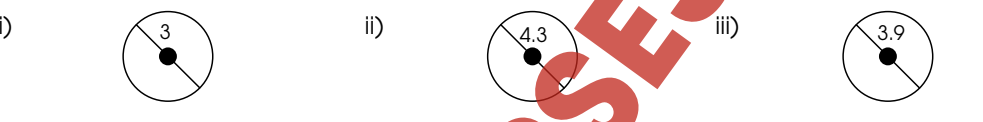
a) Find the diameter of each circle.



b) Find the radius of each circle.



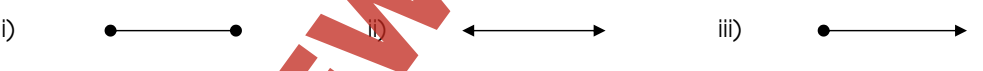
c) Find the circumference of each circle.



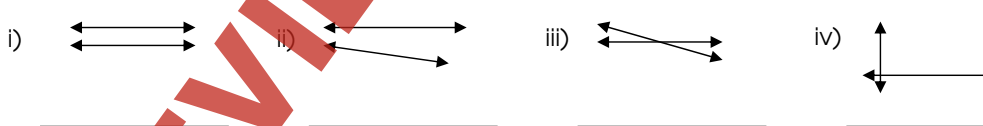
d) Find the area of each circle.



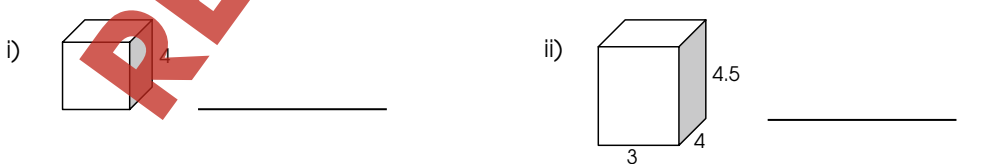
e) Identify each line as a ray, line, or line segment.



f) Identify each pair of lines as skew, parallel, perpendicular, or intersecting.



g) Find the volume for each shape.

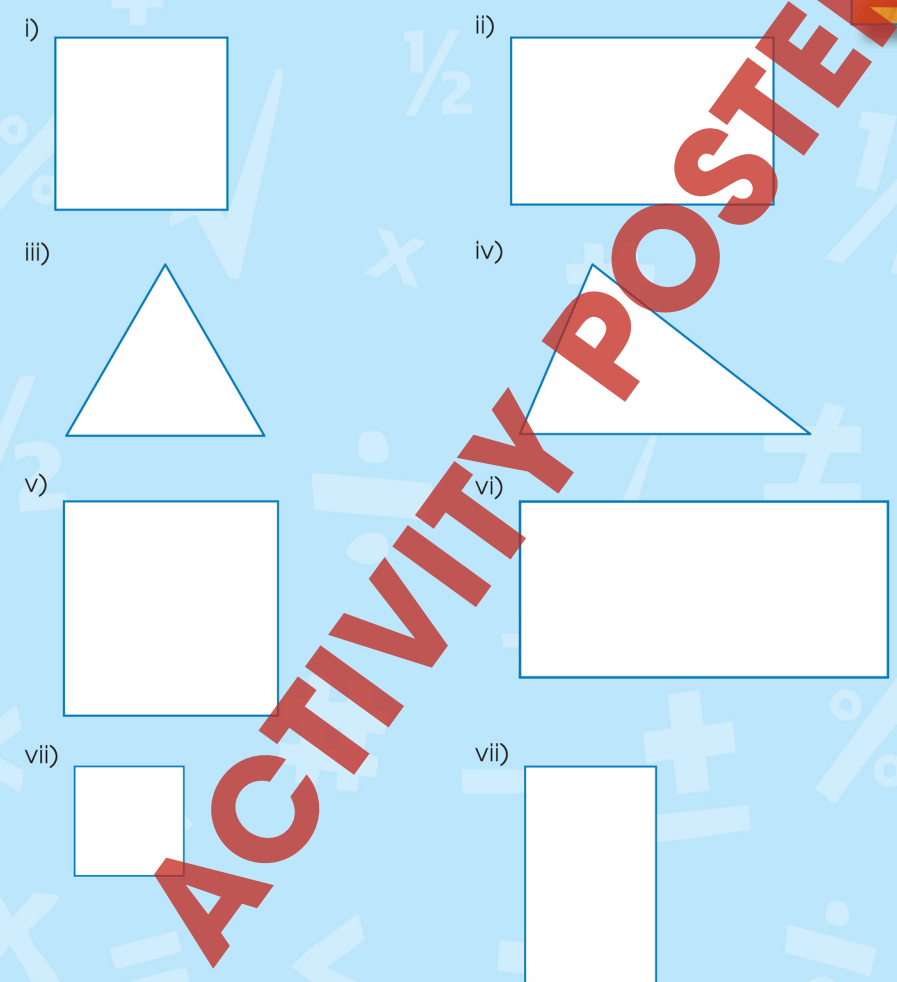


## Similar Polygons

Similar polygons are the same shape but different sizes. The corresponding angles are congruent (the same) and all corresponding sides are proportional.

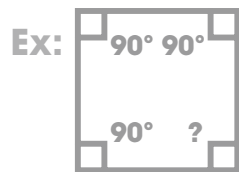
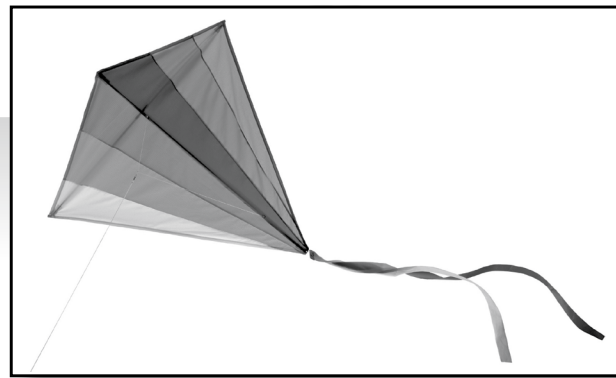


a) Draw the similar polygon for each shape.

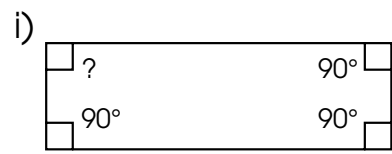




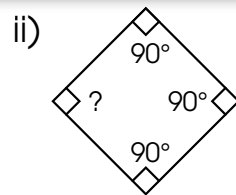
4a) The angles on a quadrilateral have a sum of 360°. Find the missing angle on each quadrilateral.



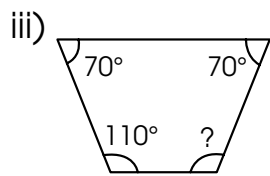
The missing angle is 90°



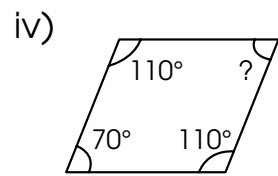
The missing angle is \_\_\_\_\_°



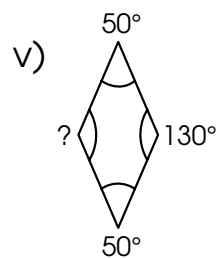
The missing angle is \_\_\_\_\_°



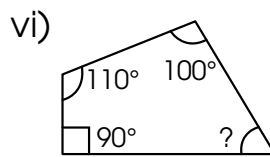
The missing angle is \_\_\_\_\_°



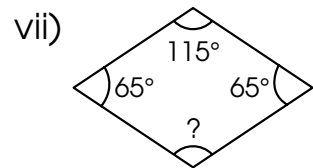
The missing angle is \_\_\_\_\_°



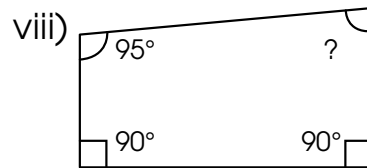
The missing angle is \_\_\_\_\_°



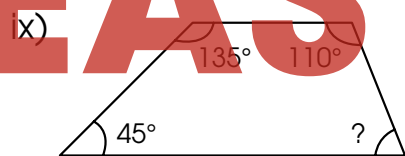
The missing angle is \_\_\_\_\_°



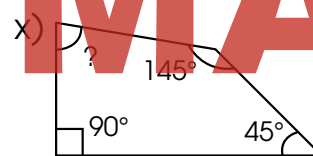
The missing angle is \_\_\_\_\_°



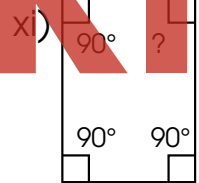
The missing angle is \_\_\_\_\_°



The missing angle is \_\_\_\_\_°



The missing angle is \_\_\_\_\_°



The missing angle is \_\_\_\_\_°

- b) Which shapes shown above have only right angles? \_\_\_\_\_
- c) Which shapes have two acute angles? \_\_\_\_\_
- d) Which shapes have three acute angles? \_\_\_\_\_
- e) Are there any shapes with all acute angles? \_\_\_\_\_
- f) Are there any shapes with all obtuse angles? \_\_\_\_\_

4.

a)

- i) 90°    ii) 90°

- iii) 110°    iv) 70°
- v) 130°

- vi) 60°    vii) 115°
- viii) 85°

- ix) 70°    x) 80°
- xi) 90°

b)

- i), ii), xi)

c)

- iii), iv), v), vi), vii), ix), x)

d)

- none

e)

- no

f)

- no

10

5.

a)

- i) 28.09 units squared
- ii) 13 units squared
- iii) 7.82 units squared

- iv) 10.89 units squared
- v) 21.16 units squared
- vi) 5.76 units squared

- vii) 16.12 units squared
- viii) 1.54 units squared
- ix) 18.04 units squared

- x) 43.56 units squared
- xi) 42.25 units squared
- xii) 17.36 units squared

- xiii) 1.69 units squared
- xiv) 23.04 units squared
- xv) 18.49 units squared

11

6.

a)

- i) 4.5 units squared
- ii) 13.125 units squared
- iii) 3 units squared

- iv) 14 units squared
- v) 5.5 units squared
- vi) 7.5 units squared

- vii) 4.375 units squared
- viii) 7.5 units squared
- ix) 2.25 units squared

- x) 13.5 units squared
- xi) 0.375 units squared
- xii) 18 units squared

- xiii) 8.5 units squared
- xiv) 21 units squared
- xv) 12 units squared

12

7.

a)

- i) 1 unit squared
- ii) 2.94 units squared
- iii) 4.65 units squared

- iv) 1.5 units squared
- v) 9.45 units squared
- vi) 3.795 units squared

- vii) 1.69 units squared
- viii) 3.15 units squared
- ix) 2.255 units squared

- x) 1.75 units squared
- xi) 6.8 units squared
- xii) 2.4 units squared

- xiii) 5 units squared
- xiv) 1.38 units squared
- xv) 5.89 units squared

- xvi) 2.295 units squared
- xvii) 6.75 units squared
- xviii) 6.125 units squared

13

