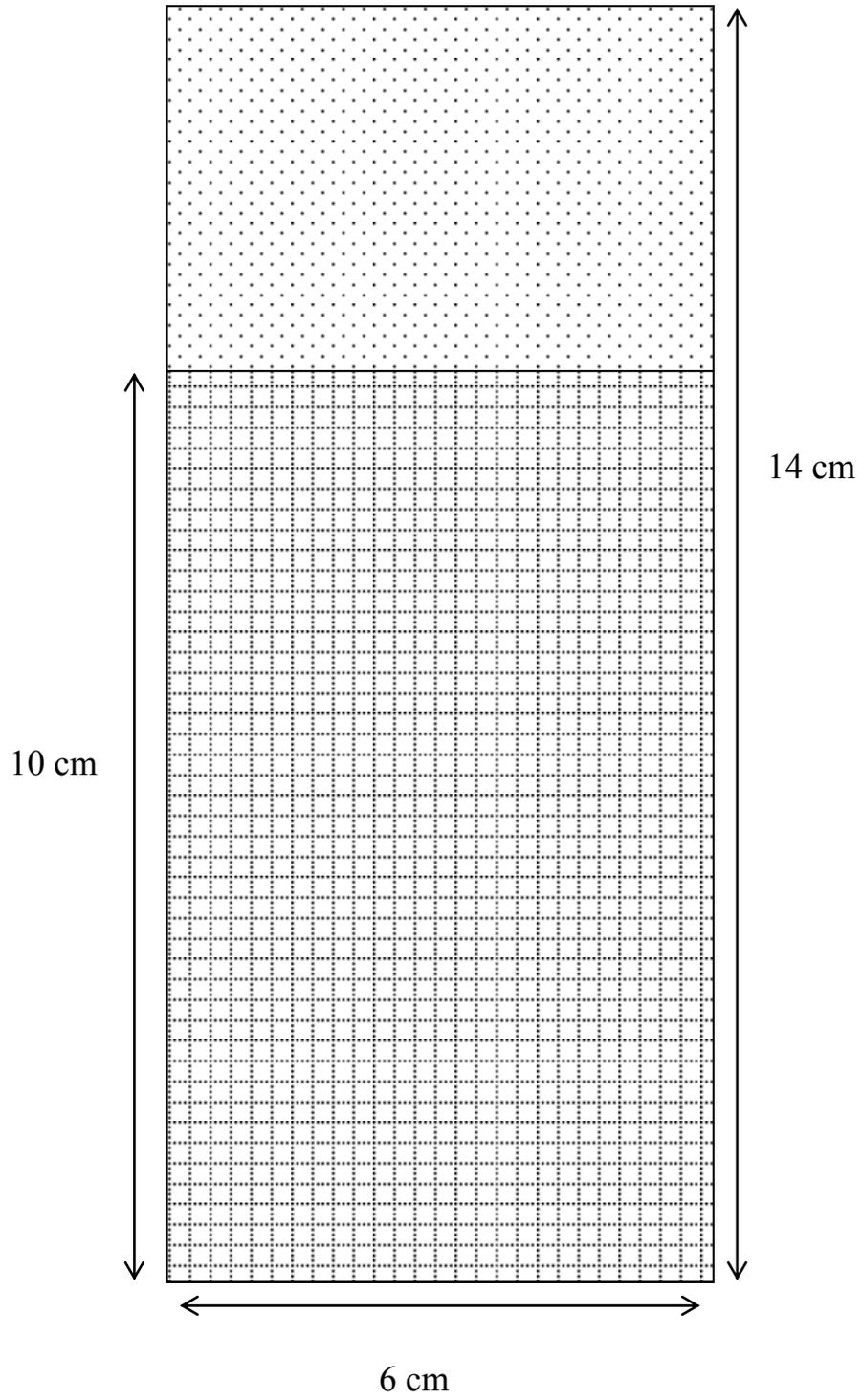


Name of shape and dimensions	Picture of shape	Area	Change in dimension	New area	% of change in areas
Rectangle l = 10 cm w = 6 cm	Draw these on graph paper		l + 4 cm  Make this change to the picture on the graph paper		
Parallelogram b = 13 cm h = 20 cm	Draw these on graph paper		h decreased by 5 cm.  Make this change to the picture on the graph paper		
Square s = 8 cm	Draw these on graph paper		s is doubled  Make this change to the picture on the graph paper		
Trapezoid b1 = 5 cm b2 = 10 cm h = 12 cm	Draw these on graph paper		b1 and b2 both increase by 2  Make this change to the picture on the graph paper		
Triangle b = 9 cm h = 12 cm	Draw these on graph paper		b increases by 2 and h doubles  Make this change to the picture on the graph paper		
Circle d = 12 cm  (Leave your answers in terms of pi.)	Draw these on graph paper		r + 3  Make this change to the picture on the graph paper		

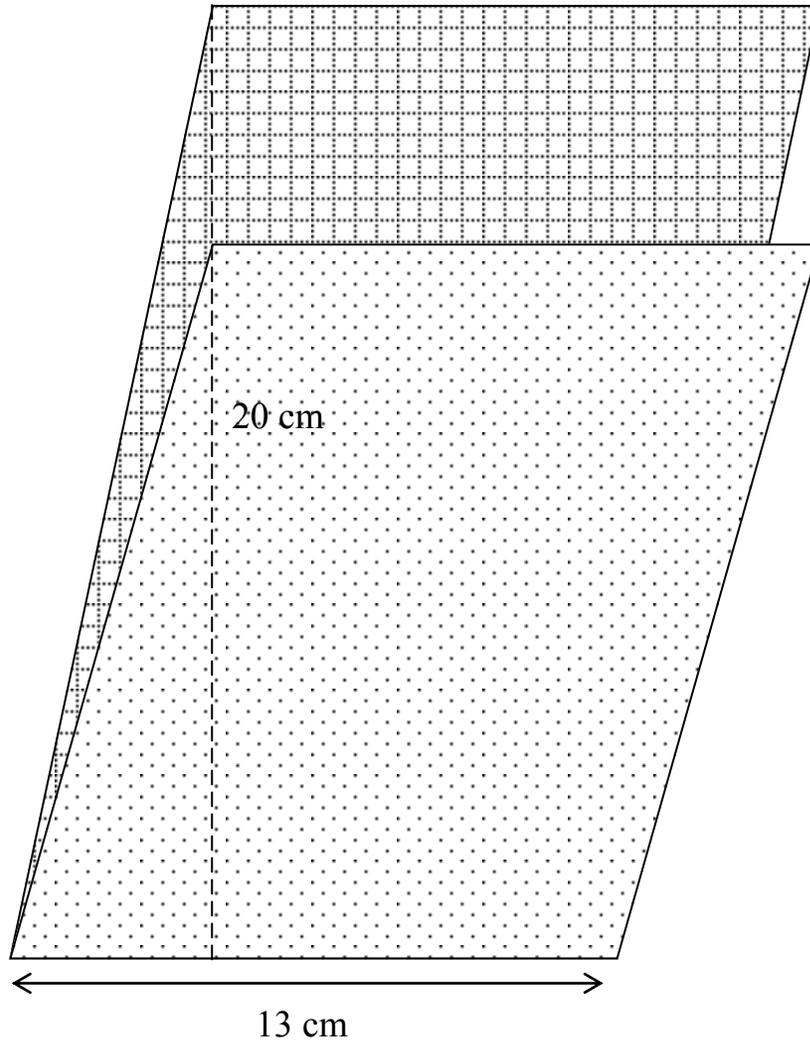
## Answer key

Name of shape and dimensions	Picture of shape	Area	Change in dimension	New area	% of change in areas
Rectangle l = 10 cm w = 6 cm	Draw these on graph paper	60 cm <sup>2</sup>	l + 4 cm  Make this change to the picture on the graph paper	84 cm <sup>2</sup>	40% increase
Parallelogram b = 13 cm h = 20 cm	Draw these on graph paper	260 cm <sup>2</sup>	h decreased by 5 cm.  Make this change to the picture on the graph paper	195 cm <sup>2</sup>	25% decrease
Square s = 8 cm	Draw these on graph paper	64 cm <sup>2</sup>	s is doubled  Make this change to the picture on the graph paper	256 cm <sup>2</sup>	213% increase
Trapezoid b1 = 5 cm b2 = 10 cm h = 12 cm	Draw these on graph paper	90 cm <sup>2</sup>	b1 and b2 both increase by 2  Make this change to the picture on the graph paper	114 cm <sup>2</sup>	27% increase
Triangle b = 9 cm h = 12 cm	Draw these on graph paper	54 cm <sup>2</sup>	b increases by 2 and h doubles  Make this change to the picture on the graph paper	122 cm <sup>2</sup>	126% increase
Circle d = 12 cm	Draw these on graph paper	36π cm <sup>2</sup>	r + 3 Make this change to the picture on the graph paper	81π cm <sup>2</sup>	125% increase

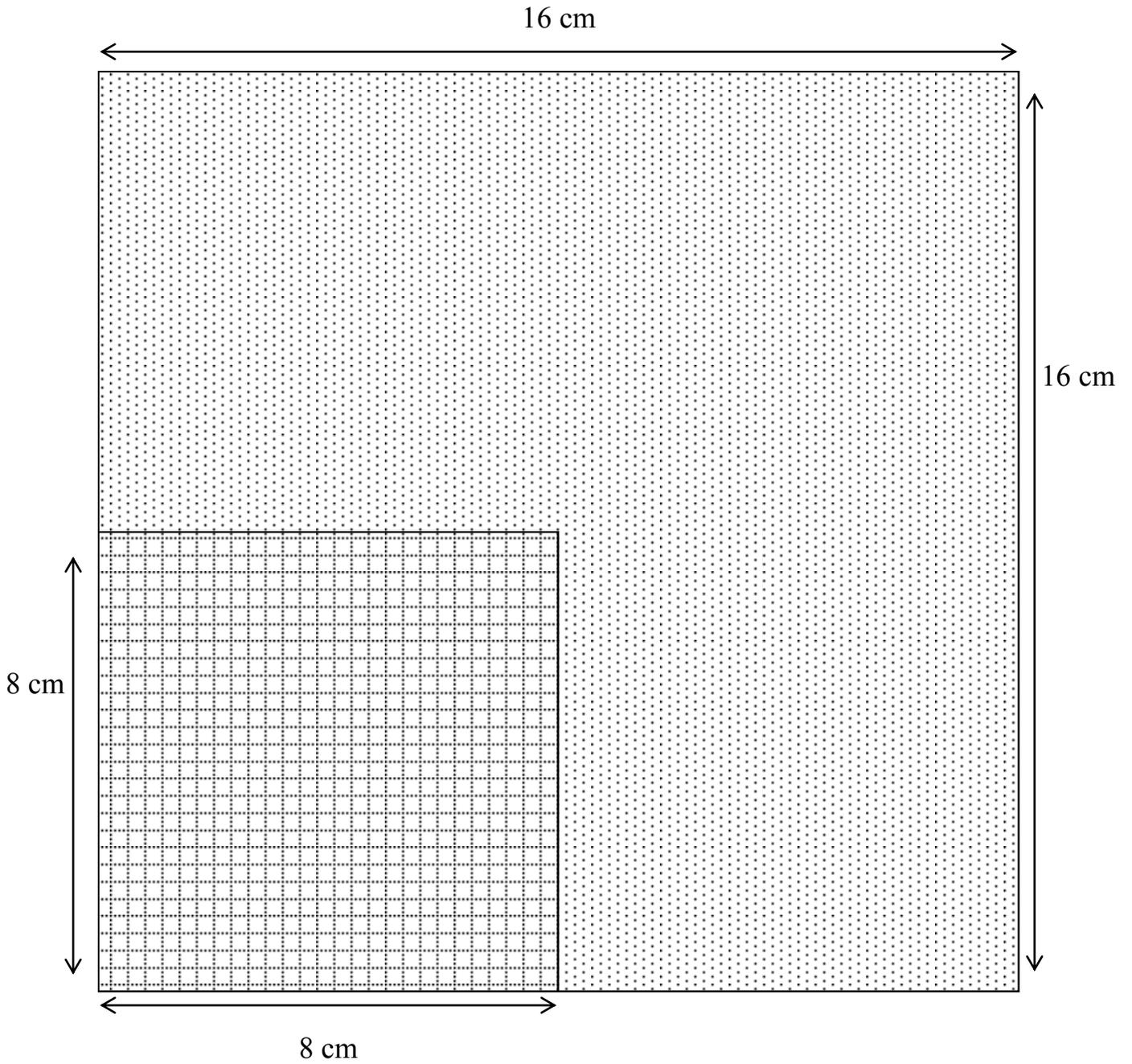
# Rectangle answer key



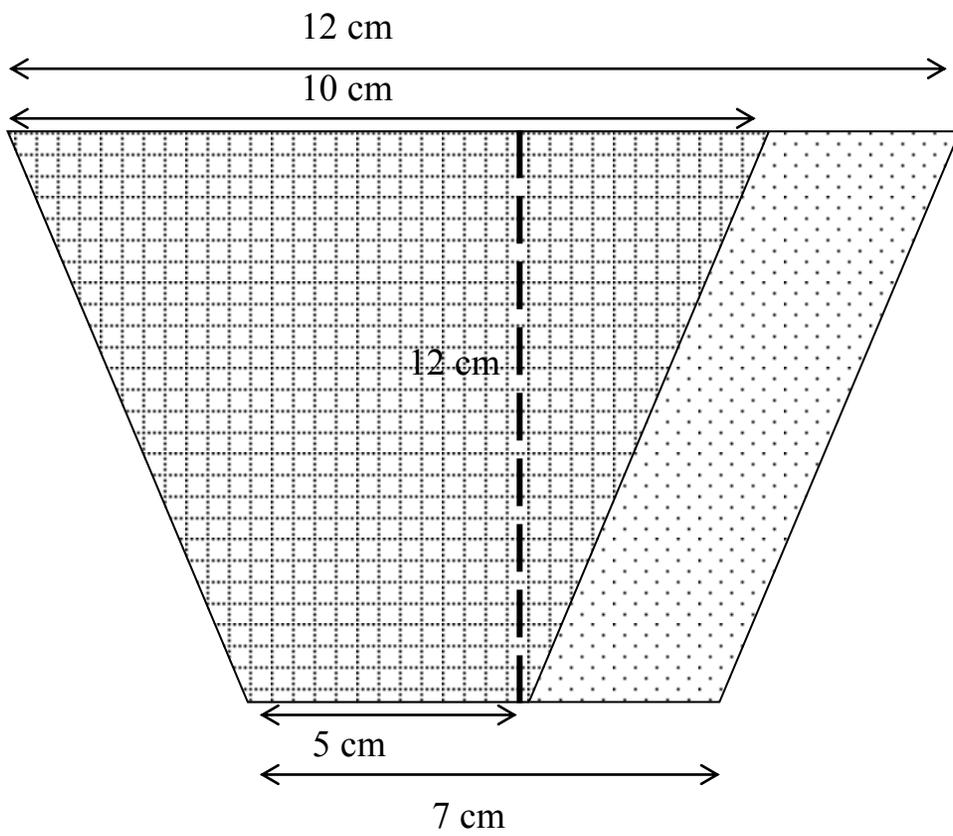
# Parallelogram answer key



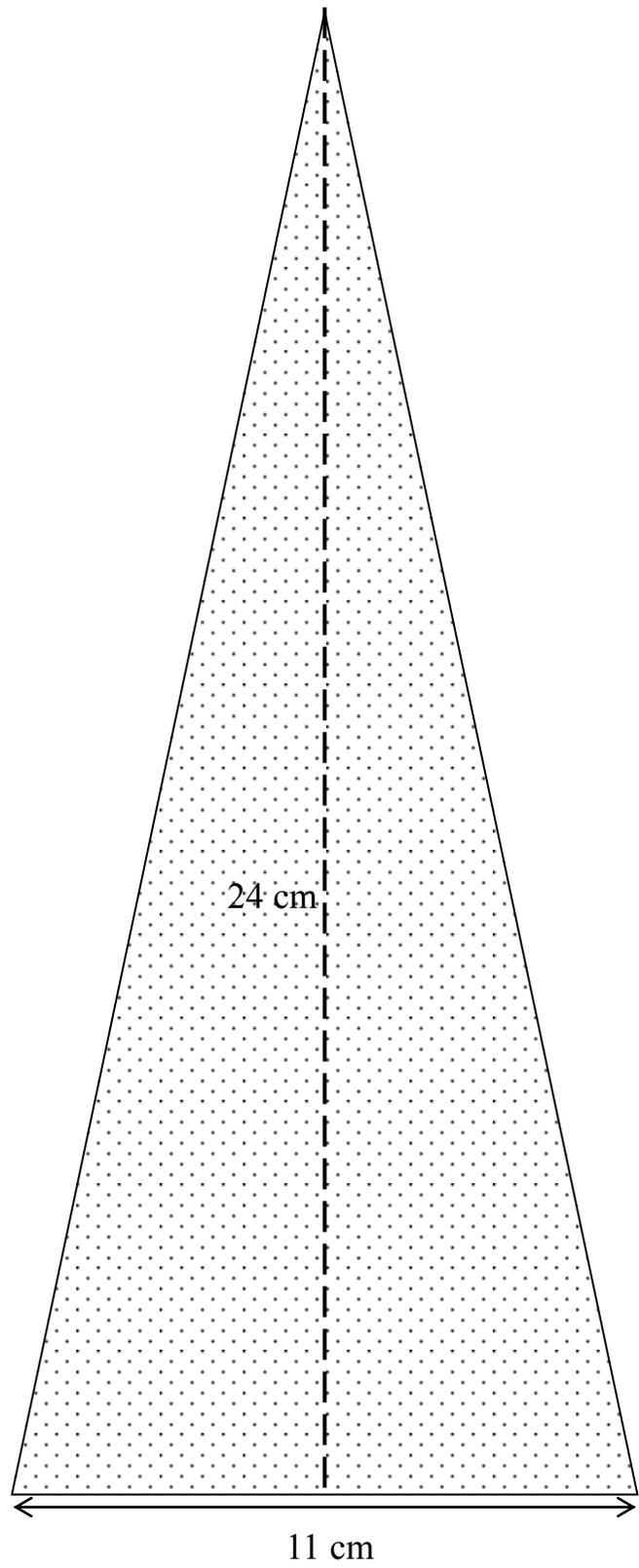
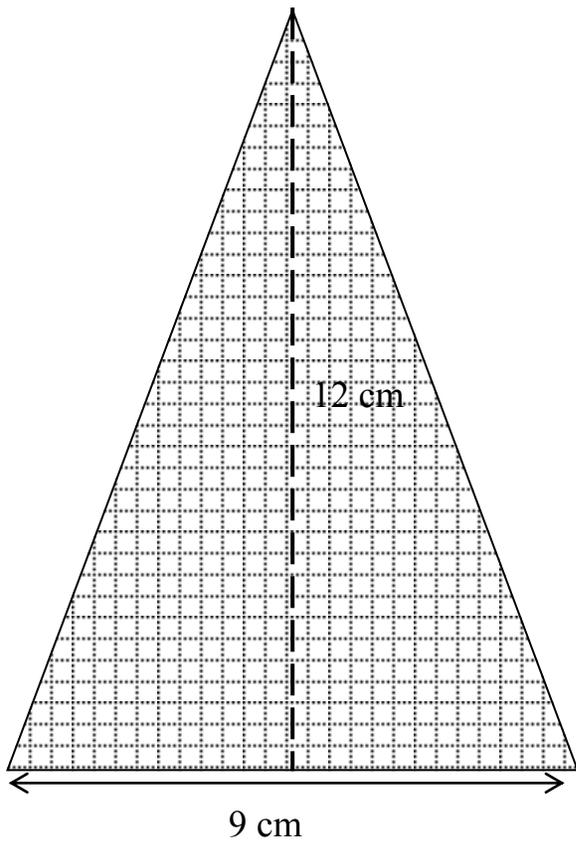
# Square answer key



# Trapezoid answer key



# Triangle answer key



# Circle answer key

