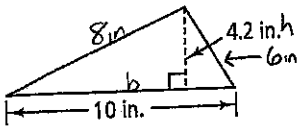
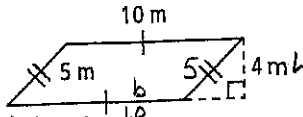


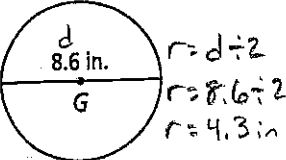
9.1-9.3 QUEST REVIEW

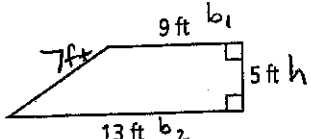
Name KEY

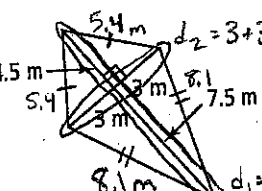
FIND THE AREA AND PERIMETER/CIRCUMFERENCE OF EACH SHAPE. IF NECESSARY, ROUND TO THE NEAREST TENTH.

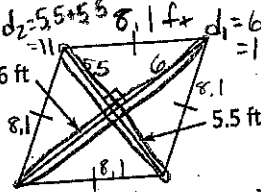
1)  $A = \underline{21 \text{ in}^2}$
 $P = \underline{24 \text{ in}}$
 $A = \frac{1}{2}bh = \frac{1}{2}(10)(4.2) = 21$
 $P = 8 + 6 + 10 = 24$

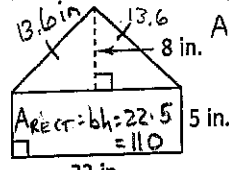
2)  $A = \underline{40 \text{ m}^2}$
 $P = \underline{30 \text{ m}}$
 $A = bh = (10)(4) = 40$
 $P = 10 + 5 + 10 + 5 = 30$

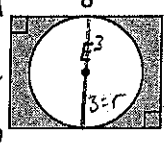
3)  $A = \underline{58.1 \text{ in}^2}$
 $C = \underline{27 \text{ in}}$
 $A = \pi r^2 = \pi(4.3)^2 = 58.1$
 $C = \pi d = \pi(8.6) = 27.0$

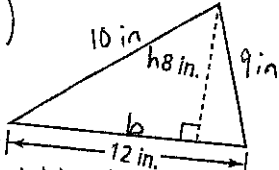
4)  $A = \underline{55 \text{ ft}^2}$
 $P = \underline{34 \text{ ft}}$
 $A = \frac{1}{2}(b_1 + b_2)h = \frac{1}{2}(9 + 13)(5) = 55$
 $P = 9 + 7 + 13 + 5 = 34$

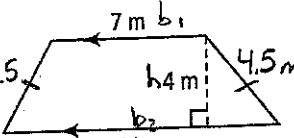
5)  $A = \underline{36 \text{ m}^2}$
 $P = \underline{27 \text{ m}}$
 $A = \frac{1}{2}d_1 d_2 = \frac{1}{2}(12)(6) = 36$
 $P = 5.4 + 5.4 + 8.1 + 8.1 = 27$

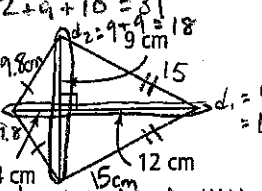
6)  $A = \underline{66 \text{ ft}^2}$
 $P = \underline{32.4 \text{ ft}}$
 $A = \frac{1}{2}d_1 d_2 = \frac{1}{2}(12)(11) = 66$
 $P = 8.1 + 8.1 + 8.1 + 8.1 = 32.4$

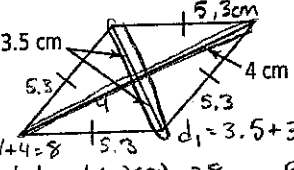
7)  $A = \underline{198 \text{ in}^2}$
 $P = \underline{59.2 \text{ in}}$
 $A = A_{\text{RECT}} + A_{\text{TRI}} = 110 + 88 = 198$
 $P = 22 + 5 + 13.6 + 13.6 + 5 = 59.2$

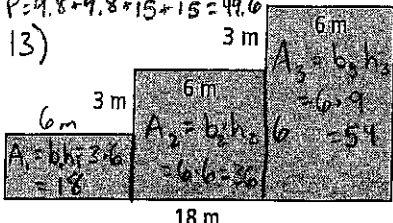
8)  $A = \underline{19.7 \text{ UNITS}^2}$
 $P = \underline{46.8 \text{ UNITS}}$
 $A = A_{\text{RECT}} - A_{\text{CIR}} = 48 - 28.3 = 19.7$
 $P = 8 + 6 + 8 + 6 + 2\pi(3) = 46.8$

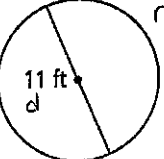
9)  $A = \underline{48 \text{ in}^2}$
 $P = \underline{31 \text{ in}}$
 $A = \frac{1}{2}bh = \frac{1}{2}(12)(8) = 48$
 $P = 12 + 9 + 10 = 31$

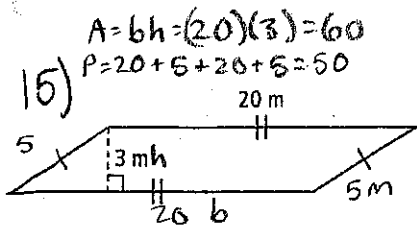
10)  $A = \underline{36 \text{ m}^2}$
 $P = \underline{27 \text{ m}}$
 $A = \frac{1}{2}(b_1 + b_2)h = \frac{1}{2}(7 + 11)(4) = 36$
 $P = 11 + 4.5 + 7 + 4.5 = 27$

11)  $A = \underline{144 \text{ cm}^2}$
 $P = \underline{49.6 \text{ cm}}$
 $A = \frac{1}{2}d_1 d_2 = \frac{1}{2}(18)(16) = 144$
 $P = 9.8 + 9.8 + 15 + 15 = 49.6$

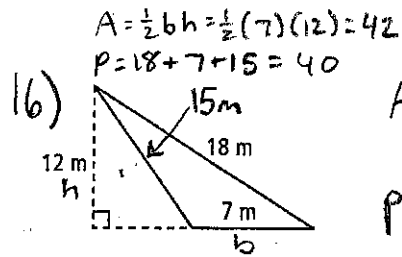
12)  $A = \underline{28 \text{ cm}^2}$
 $P = \underline{21.2 \text{ cm}}$
 $A = \frac{1}{2}d_1 d_2 = \frac{1}{2}(8)(7) = 28$
 $P = 5.3 + 5.3 + 5.3 + 5.3 = 21.2$

13)  $A = \underline{108 \text{ m}^2}$
 $P = \underline{54 \text{ m}}$
 $A = A_1 + A_2 + A_3 = 18 + 36 + 54 = 108$
 $P = 18 + 9 + 6 + 3 + 6 + 3 + 6 + 3 = 54$

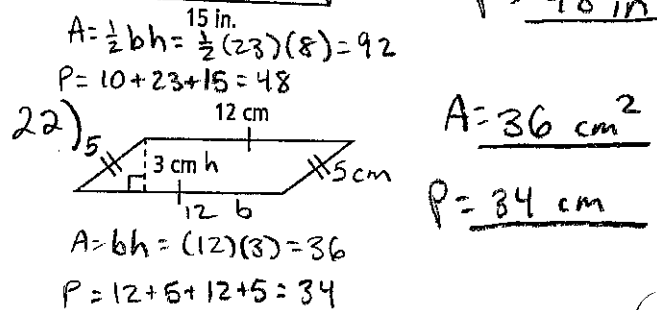
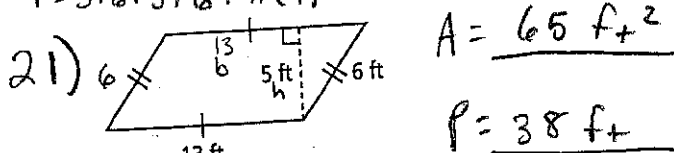
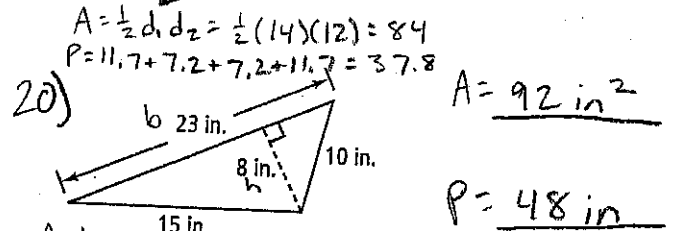
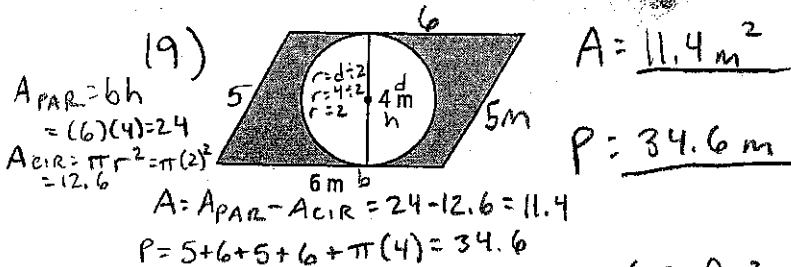
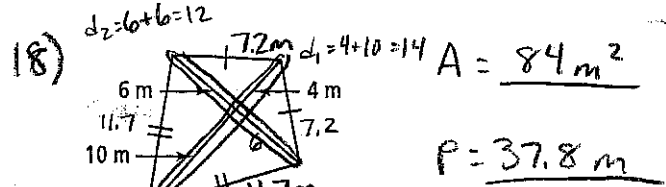
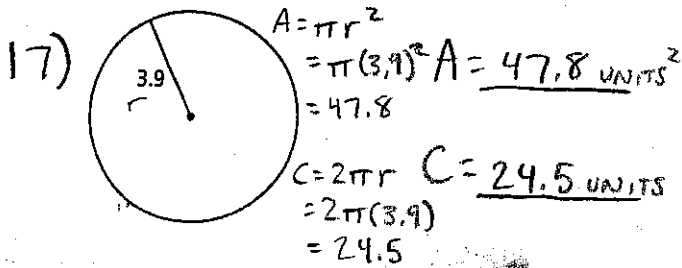
14)  $A = \underline{95 \text{ ft}^2}$
 $C = \underline{34.6 \text{ ft}}$
 $A = \pi r^2 = \pi(5.5)^2 = 95.0$
 $C = \pi d = \pi(11) = 34.6$



$A = 60 \text{ m}^2$
 $P = 50 \text{ m}$

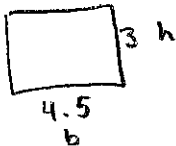


$A = 42 \text{ m}^2$
 $P = 40 \text{ m}$



$A = bh = (13)(5) = 65$
 $P = 6 + 13 + 6 + 13 = 38$

23) To the nearest tenth, what are the perimeter and area of a rectangle with base 4.5 in. and height 3 in.?



$A = bh = (4.5)(3) = 13.5$
 $P = 4.5 + 3 + 4.5 + 3 = 15$

$A = 13.5 \text{ in}^2$
 $P = 15 \text{ in}$

24) To the nearest tenth, what are the circumference and area of a circle with diameter 8 cm?



$r = d \div 2 = 8 \div 2 = 4$
 $A = \pi r^2 = \pi(4)^2 = 50.3$
 $C = \pi d = \pi(8) = 25.1$

$A = 50.3 \text{ cm}^2$
 $C = 25.1 \text{ cm}$

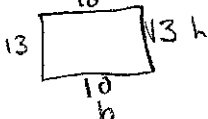
25) What are the perimeter and area of a square with side length 11 units?



$A = s^2 = 11^2 = 121$
 $P = 4s = 4(11) = 44$

$A = 121 \text{ UNITS}^2$
 $P = 44 \text{ UNITS}$

26) What is the perimeter of a rectangle with base 10 in. and height 13 in.?



$P = 10 + 13 + 10 + 13 = 46$
 $A = bh = (10)(13) = 130$

$A = 130 \text{ in}^2$
 $P = 46 \text{ in}$