

Q3Week2 Practice - LOS/LOC/2 Area Formulas

Date _____ Period _____

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Find the missing side. Round your answers to the nearest tenth.

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| 1) In $\triangle PQR$, $q = 15$, $r = 13$, $m\angle P = 85^\circ$
Find p | 2) In $\triangle PKH$, $h = 19$, $k = 18$, $m\angle P = 114^\circ$
Find p |
| 3) In $\triangle YZX$, $z = 14$, $m\angle Y = 26^\circ$, $x = 6$
Find y | 4) In $\triangle TRS$, $r = 22$, $s = 13$, $m\angle T = 37^\circ$
Find t |
| 5) In $\triangle PQR$, $m\angle P = 119^\circ$, $q = 16$, $r = 21$
Find p | 6) In $\triangle RPQ$, $q = 15$, $m\angle R = 36^\circ$, $p = 23$
Find r |
| 7) In $\triangle EFD$, $m\angle E = 91^\circ$, $m\angle D = 59^\circ$, $d = 24$
Find e | 8) In $\triangle BCA$, $m\angle B = 57^\circ$, $m\angle C = 101^\circ$, $a = 13$
Find c |
| 9) In $\triangle DEF$, $m\angle D = 33^\circ$, $m\angle E = 68^\circ$, $f = 18$
Find e | 10) In $\triangle XYZ$, $m\angle Y = 17^\circ$, $m\angle Z = 13^\circ$, $y = 34$
Find z |
| 11) In $\triangle PQR$, $m\angle P = 126^\circ$, $m\angle Q = 17^\circ$, $r = 35$
Find q | 12) In $\triangle XYZ$, $m\angle X = 61^\circ$, $m\angle Z = 30^\circ$, $y = 24$
Find x |

Find the missing angle. Round your answers to the nearest degree.

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| 13) In $\triangle ZXY$, $x = 20$, $m\angle Z = 138^\circ$, $y = 22$
Find $m\angle X$ | 14) In $\triangle YZX$, $x = 21$, $m\angle Y = 127^\circ$, $z = 19$
Find $m\angle Z$ |
| 15) In $\triangle HPK$, $m\angle H = 83.7^\circ$, $k = 14.3$, $p = 17.2$
Find $m\angle P$ | 16) In $\triangle STR$, $m\angle S = 124.9^\circ$, $t = 17.9$, $r = 23.6$
Find $m\angle T$ |
| 17) In $\triangle RPQ$, $p = 17$, $m\angle R = 106^\circ$, $q = 24$
Find $m\angle P$ | 18) In $\triangle FDE$, $e = 22.7$, $d = 19.5$, $m\angle F = 84^\circ$
Find $m\angle D$ |
| 19) In $\triangle XYZ$, $x = 17$, $z = 7$, $y = 21$
Find $m\angle Y$ | 20) In $\triangle DEF$, $f = 8.1$, $e = 9.6$, $d = 10.8$
Find $m\angle F$ |
| 21) In $\triangle RPQ$, $q = 16$, $p = 17.7$, $r = 19.1$
Find $m\angle R$ | 22) In $\triangle CAB$, $a = 23.5$, $b = 10.4$, $c = 15.2$
Find $m\angle C$ |
| 23) In $\triangle TRS$, $s = 7$, $r = 16$, $t = 21$
Find $m\angle S$ | 24) In $\triangle DEF$, $e = 15$, $f = 24$, $d = 14$
Find $m\angle D$ |
| 25) In $\triangle PKH$, $m\angle H = 82^\circ$, $h = 19$, $k = 9$
Find $m\angle K$ | 26) In $\triangle YZX$, $m\angle Y = 102^\circ$, $x = 8$, $y = 24$
Find $m\angle X$ |
| 27) In $\triangle PQR$, $m\angle P = 140^\circ$, $r = 5$, $p = 31$
Find $m\angle R$ | 28) In $\triangle STR$, $m\angle S = 95^\circ$, $r = 15$, $s = 26$
Find $m\angle R$ |
| 29) In $\triangle YZX$, $m\angle Z = 111^\circ$, $y = 27$, $z = 32$
Find $m\angle Y$ | 30) In $\triangle HPK$, $m\angle H = 118^\circ$, $k = 12$, $h = 41$
Find $m\angle K$ |

Find the area of each triangle to the nearest tenth.

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| 31) In $\triangle TRS$, $s = 8$, $r = 9$, $m\angle T = 144^\circ$ | 32) In $\triangle KHP$, $m\angle K = 76^\circ$, $p = 8$, $h = 8$ |
| 33) In $\triangle RST$, $s = 15$, $t = 6$, $m\angle R = 106^\circ$ | 34) In $\triangle ZXY$, $x = 10$, $y = 5$, $m\angle Z = 111^\circ$ |
| 35) In $\triangle FDE$, $d = 7$, $e = 10$, $m\angle F = 22^\circ$ | 36) In $\triangle RPQ$, $m\angle R = 62^\circ$, $q = 6$, $p = 4$ |
| 37) In $\triangle FDE$, $d = 12$, $f = 6$, $e = 7$ | 38) In $\triangle FDE$, $e = 7.8$, $f = 9$, $d = 5$ |
| 39) In $\triangle EFD$, $e = 13$, $d = 6$, $f = 11$ | 40) In $\triangle HPK$, $h = 14$, $k = 10.5$, $p = 12$ |
| 41) In $\triangle YZX$, $y = 6$, $z = 9$, $x = 11.8$ | 42) In $\triangle PQR$, $q = 15$, $p = 6$, $r = 12$ |

Answers to Q3Week2 Practice - LOS/LOC/2 Area Formulas (ID: 1)

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|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 1) 19 | 2) 31 | 3) 9 | 4) 14 |
| 5) 32 | 6) 14 | 7) 28 | 8) 34.1 |
| 9) 17 | 10) 26.2 | 11) 17 | 12) 21 |
| 13) 19.9° | 14) 25.1° | 15) 54° | 16) 23.5° |
| 17) 29.6° | 18) 43.1° | 19) 115.6° | 20) 46.3° |
| 21) 68.8° | 22) 28.5° | 23) 15.4° | 24) 32.8° |
| 25) 28° | 26) 19° | 27) 6° | 28) 35.1° |
| 29) 52° | 30) 15° | 31) 21.2 units ² | 32) 31 units ² |
| 33) 43.3 units ² | 34) 23.3 units ² | 35) 13.1 units ² | 36) 10.6 units ² |
| 37) 14.9 units ² | 38) 19.5 units ² | 39) 32.9 units ² | 40) 61.3 units ² |
| 41) 26.4 units ² | 42) 34.2 units ² | | |