

ALL ABOUT

ALGEBRA

Session 4

Find n

with multi-step
expressions

ALL ABOUT ALGEBRA

Session 4: Find n (multi-step)



Practice section: Find n

$$1) 3n + 18 = 36 \quad n =$$

$$2) 4n - 8 = 32 \quad n =$$

$$3) 100 - 5n = 60 \quad n =$$

$$4) \frac{15}{n} + 6 = 11 \quad n =$$

$$5) 80 - \frac{42}{n} = 73 \quad n =$$

$$6) \frac{n}{10} + 6 = 15 \quad n =$$

$$7) 2n^2 - 12 = 20 \quad n =$$

$$8) \frac{n^2}{5} + 15 = 35 \quad n =$$

Have a go! Find n

$$1) 6n - 7 = 47 \quad n =$$

$$2) 5n + 13 = 58 \quad n =$$

$$3) 9n + 18 = 54 \quad n =$$

$$4) 55 - 3n = 22 \quad n =$$

$$5) 78 - 7n = 1 \quad n =$$

$$6) 10 + 8n = 74 \quad n =$$

$$7) 81 - 5n = 46 \quad n =$$

$$7) 11n - 50 = 27 \quad n =$$

$$9) \frac{20}{n} + 16 = 21 \quad n =$$

$$10) 100 - \frac{56}{n} = 93 \quad n =$$

$$11) \frac{n}{9} + 66 = 69 \quad n =$$

$$12) \frac{n}{5} + 16 = 20 \quad n =$$

Challenge Find n

$$1) 3n^2 - 60 = 15 \quad n =$$

$$2) 81 - 4n^2 = 65 \quad n =$$

$$3) \frac{n^2}{9} + 16 = 20 \quad n =$$

$$4) \frac{75}{n^2} + 7 = 10 \quad n =$$



ALL ABOUT ALGEBRA

Session 4: ANSWERS



Practice section: Find n

$$1) 3n + 18 = 36 \quad n = 6 \quad 2) 4n - 8 = 32 \quad n = 10$$

$$3) 100 - 5n = 60 \quad n = 8 \quad 4) \frac{15}{n} + 6 = 11 \quad n = 3$$

$$5) 80 - \frac{42}{n} = 73 \quad n = 6 \quad 6) \frac{n}{10} + 6 = 15 \quad n = 90$$

$$7) 2n^2 - 12 = 20 \quad n = 4 \quad 8) \frac{n^2}{5} + 15 = 35 \quad n = 10$$

Have a go! Find n

$$1) 6n - 7 = 47 \quad n = 9 \quad 2) 5n + 13 = 58 \quad n = 9 \quad 3) 9n + 18 = 54 \quad n = 4$$

$$4) 55 - 3n = 22 \quad n = 11 \quad 5) 78 - 7n = 1 \quad n = 11 \quad 6) 10 + 8n = 74 \quad n = 8$$

$$7) 81 - 5n = 46 \quad n = 7 \quad 8) 11n - 50 = 27 \quad n = 7 \quad 9) \frac{20}{n} + 16 = 21 \quad n = 4$$

$$10) 100 - \frac{56}{n} = 93 \quad n = 8 \quad 11) \frac{n}{9} + 66 = 69 \quad n = 27 \quad 12) \frac{n}{5} + 16 = 20 \quad n = 20$$

Challenge Find n

$$1) 3n^2 - 60 = 15 \quad n = 5 \quad 2) 81 - 4n^2 = 65 \quad n = 2$$

$$3) \frac{n^2}{9} + 16 = 20 \quad n = 6 \quad 4) \frac{75}{n^2} + 7 = 10 \quad n = 5$$

