G.SRT.C.8: Pythagorean Theorem 4

1 The set of integers $\{3,4,5\}$ is a Pythagorean triple. Another such set is
   1) $\{6,7,8\}$
   2) $\{6,8,12\}$
   3) $\{6,12,13\}$
   4) $\{8,15,17\}$

2 Which set of numbers could represent the lengths of the sides of a right triangle?
   1) $\{2,3,4\}$
   2) $\{5,9,13\}$
   3) $\{7,7,12\}$
   4) $\{8,15,17\}$

3 The lengths of the sides of a right triangle can be
   1) $9,12,15$
   2) $8,10,13$
   3) $5,5,10$
   4) $4,5,6$

4 Which set of numbers represents the lengths of the sides of a right triangle?
   1) $\{7,24,25\}$
   2) $\{9,16,23\}$
   3) $\{10,12,14\}$
   4) $\{14, 16, 18$

5 Which set of numbers could be the lengths of the sides of a right triangle?
   1) $\{10,24,26\}$
   2) $\{12,16,30\}$
   3) $\{3,4,6\}$
   4) $\{4,7,8\}$

6 Which set of numbers does *not* represent the sides of a right triangle?
   1) $\{6,8,10\}$
   2) $\{8,15,17\}$
   3) $\{8,24,25\}$
   4) $\{15,36,39\}$

7 Which set of numbers could *not* represent the lengths of the sides of a right triangle?
   1) $\{1,3,\sqrt{10}\}$
   2) $\{2,3,4\}$
   3) $\{3,4,5\}$
   4) $\{8,15,17\}$

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Answer Section

1 ANS: 4

$8^2 + 15^2 = 17^2$

$64 + 225 = 289$

REF: 060009a

2 ANS: 4

$8^2 + 15^2 = 17^2$

REF: 081418ge

3 ANS: 1   REF: 061415ia

4 ANS: 1

$7^2 + 24^2 = 25^2$

REF: 011526ia

5 ANS: 1

$10^2 + 24^2 = 26^2$ 10, 24, 26 is a multiple of the 5, 12, 13 triangle.

$100 + 576 = 676$

REF: 010827a

6 ANS: 3

$8^2 + 24^2 \neq 25^2$

REF: 011111ge

7 ANS: 2

$2^2 + 3^2 \neq 4^2$

REF: 011316ge