

# Estimate an irrational square root between integers

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| NAME | DATE | SCORE / 10 |
|------|------|------------|

**1**  $\sqrt{184}$  is between which two whole numbers? Which one is  $\sqrt{184}$  nearer to?

- ☐ Between 14 and 15, nearer 14    ☐ Between 12 and 13, nearer 13  
☐ Between 13 and 14, nearer 14    ☐ Between 13 and 14, nearer 13

**2** Write a whole number from 21 to 39 whose square root is between 5 and 6.

**3**  $\sqrt{151}$  is between which two whole numbers? Which one is  $\sqrt{151}$  nearer to?

- ☐ Between 12 and 13, nearer 13    ☐ Between 12 and 13, nearer 12  
☐ Between 11 and 12, nearer 12    ☐ Between 13 and 14, nearer 13

**4** Write a whole number from 97 to 126 whose square root is between 10 and 11.

**5**  $\sqrt{170}$  is between which two whole numbers? Which one is  $\sqrt{170}$  nearer to?

- ☐ Between 13 and 14, nearer 14    ☐ Between 14 and 15, nearer 14  
☐ Between 12 and 13, nearer 13    ☐ Between 13 and 14, nearer 13

**6** Write a whole number from 60 to 82 whose square root is between 8 and 9.

**7**

$\sqrt{69}$  is between which two whole numbers? Which one is  $\sqrt{69}$  nearer to?

- ☐ Between 7 and 8, nearer 8   ☐ Between 9 and 10, nearer 9   ☐ Between 8 and 9, nearer 8  
☐ Between 8 and 9, nearer 9

**8**

Write a whole number from 115 to 147 whose square root is between 11 and 12.

**9**

$\sqrt{40}$  is between which two whole numbers? Which one is  $\sqrt{40}$  nearer to?

- ☐ Between 5 and 6, nearer 6   ☐ Between 7 and 8, nearer 7   ☐ Between 6 and 7, nearer 6  
☐ Between 6 and 7, nearer 7

**10**

Write a whole number from 4 to 19 whose square root is between 3 and 4.

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**1** Between 13 and 14, nearer 14

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**3** Between 12 and 13, nearer 12

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**5** Between 13 and 14, nearer 13

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**7** Between 8 and 9, nearer 8

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**9** Between 6 and 7, nearer 6

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**2** 26

Any one of these is right too: 27, 28, 29, 30, 31, 32, 33, 34, 35.

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**4** 101

Any one of these is right too: 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120.

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**6** 65

Any one of these is right too: 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80.

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**8** 122

Any one of these is right too: 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143.

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**10** 10

Any one of these is right too: 11, 12, 13, 14, 15.