

ANSWER PRESENTATION TOOL

Blue - Student Edition

7

4 - Exercise

1-4, 9-19, 35

ALL EVEN

Show Solutions

ODD

1. A rational number can be written as the ratio of two integers. An irrational number cannot be written as the ratio of two integers.

2. 32 is between the perfect squares 25 and 36, but is closer to 36, so $\sqrt{32} \approx 6$.

3. all rational and irrational numbers;
Sample answer:
 $-2, \frac{1}{8}, \sqrt{7}$

4. $\sqrt{8}$; $\sqrt{8}$ is irrational and the other three numbers are rational.

9. whole, integer, rational

10. natural, whole, integer, rational

11. irrational

12. integer, rational

13. rational

14. natural, whole, integer, rational

15. irrational

16. irrational

17. 144 is a perfect square. So, $\sqrt{144}$ is rational.

18. no; 52 is not a perfect square.

19. a. If the last digit is 0, it is a whole number. Otherwise, it is a natural number.

b. irrational number

c. irrational number

35. 8.1 ft

37. 8.5 ft

38. 8.9 cm

39. 20.6 in.

47. 30.1 m/sec

$$49. t = \sqrt{\frac{d}{4.9}} = \sqrt{\frac{14}{4.9}} \approx 1.7$$

It takes the balloon about 1.7 seconds to fall to the ground.