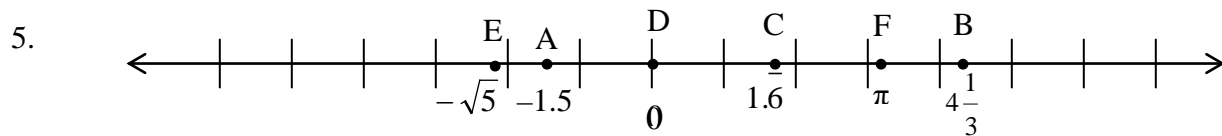


1. (a)  $\frac{73}{100}$  (b)  $3\frac{3}{5}$  (c)  $\frac{1}{8}$
2. (a) 0.44 (b)  $0.2\overline{27}$  (c)  $2.\overline{6}$  (d) 1.75  
 (e)  $0.\overline{1}$

3. (a)  $5.73 \cdot 10^{12}$  (b)  $9.8 \cdot 10^{-8}$  m (c)  $9.3 \cdot 10^7$  mi  
 (d)  $3.5 \cdot 10^{-4}$  (e)  $4.95 \cdot 10^6$  (f)  $2.04 \cdot 10^{13}$  mi

4. (a) 0.053 (b) 725,000,000 (c) 6.275



6. (a) 307.63 (b) 308 (c) 1,099.78 (d) 1,099.8

7. (a)  $>$  (b)  $=$  (c)  $<$

8. (a)  $\frac{37}{50}$  (b)  $1\frac{2}{5}$  (c)  $\frac{3}{25}$

9. (a) 0.28 (b)  $0.\overline{36}$  (c) 0.6875

10. 30,264.3206

11. (a) Twelve and thirty-four ten-thousandths (b) Five thousandths

12. Answers may vary on the explanation. It is mathematically misleading and very likely to be “false advertising”. A dozen carnations for less than a nickel is pretty amazing pricing!

13. 

12.8	-1.2	8.8
2.8	6.8	10.8
4.8	14.8	0.8

14. \$3.80/lb 15. 21.0 mph

16. (a) 4.5, 5.4 (b) 4.8, 9.6 17. (a)  $2\sqrt{10}$  (b)  $5\sqrt{3}$

18. 4.899 19. (a) 2.3 x 1 (b) 9.6 x 8.7

20. (a) 34 yd (b) 14 cm

21. (a) Irrational (b) Rational (c) Irrational

22. 8 shelves
23. (a) 8 or -8 (b) 0.5, 0.25
24. 0.9, 0.95, 0.955,  $0.9\overline{5}$ ,  $0.9\overline{55}$ ,  $0.9\overline{59}$
25. (a) 18.75 (b) 6 or -6 (c) 17.5 (d) -375  
(e) 54 (f) 86
26. (a)  $58.\overline{3}$  (b) 1 (c) \$0.21
27. 514 fish 28. 78% 29. 9 boys
30. (a) 17 : 30 or  $\frac{17}{30}$  (b) 17 : 13 or  $\frac{17}{13}$
31. (a)  $\frac{37}{50}$  (b)  $\frac{13}{200}$  (c)  $\frac{123}{1000}$
32. (a) 0.2 (b) 2.75 (c)  $0.\overline{3}$
33. (a) 31.25% (b)  $86\frac{2}{3}\%$  or  $86.\overline{6}\%$  (c) 55%  
(d) 76% (e) 1.23% (f)  $45.\overline{35}\%$
34. 64 fl oz for \$3.60 35. Yes
36. 9 oranges, 48 grapes 37. 7.5 m
38. Bart 39.  $1\frac{7}{9}$  oz (or approximately 2 oz)
40. (a)  $\frac{106}{56}$  or 106 : 56 (b) 65.4%
41. (a) 25% (b) 192 (c)  $56.\overline{6}$  (d) 20%
42.  $3\frac{1}{3}\%$  or  $3.\overline{3}\%$  43. 88.6%
44. \$183.20 45. 31%
- \*46. \$15,000 \*47. \$12,682.41 or \$12,682.42

**Do your best! Rise to the challenge! Live and learn!**