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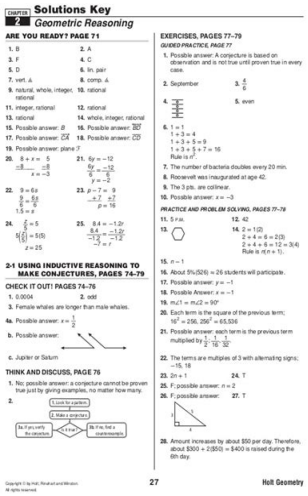
so many fake sites. this is the first one which worked! Many thanks



CHAPTER 2 **Solutions Key**

Geometric Reasoning

ARE YOU READY? PAGE 71

1. B
2. A
3. F
4. C
5. D
6. lin, pair
7. vert. ∠
8. comp. ∠
9. natural, whole, integer, rational
10. rational
11. integer, rational
12. rational
13. rational
14. whole, integer, rational
15. Possible answer: B
16. Possible answer: $\overline{BD}$
17. Possible answer: $\overline{CA}$
18. Possible answer: $\overline{CD}$
19. Possible answer: plane $\mathcal{T}$
20. $8 + x = 5$; $-8 \quad -8$; $x = -3$
21. $6y = -12$; $\frac{6y}{6} = \frac{-12}{6}$; $y = -2$
22. $9 = 6s$; $\frac{9}{6} = \frac{6s}{6}$; $1.5 = s$
23. $p - 7 = 9$; $+7 \quad +7$; $p = 16$
24. $\frac{z}{5} = 5$; $5\left(\frac{z}{5}\right) = 5(5)$; $z = 25$
25. $8.4 = -1.2r$; $\frac{8.4}{-1.2} = \frac{-1.2r}{-1.2}$; $-7 = r$

2-1 USING INDUCTIVE REASONING TO MAKE CONJECTURES, PAGES 74–79

CHECK IT OUT! PAGES 74–76

1. 0.0004
2. odd
3. Female whales are longer than male whales.
4a. Possible answer: $x = \frac{1}{2}$
b. Possible answer:
c. Jupiter or Saturn

THINK AND DISCUSS, PAGE 76

1. No; possible answer: a conjecture cannot be proven true just by giving examples, no matter how many.
2. 1. Look for a pattern; 2. Make a conjecture; 3a. If you verify the conjecture; 4. Is it true?; 3b. If no, find a counterexample.

EXERCISES, PAGES 77–79

GUIDED PRACTICE, PAGE 77

1. Possible answer: A conjecture is based on observation and is not true until proven true in every case.
2. September
3. $\frac{4}{6}$
4.
5. even
6. $1 = 1$; $1 + 3 = 4$; $1 + 3 + 5 = 9$; $1 + 3 + 5 + 7 = 16$; Rule is n^2.
7. The number of bacteria doubles every 20 min.
8. Roosevelt was inaugurated at age 42.
9. The 3 pts. are collinear.
10. Possible answer: $x = -3$

PRACTICE AND PROBLEM SOLVING, PAGES 77–78

11. 5 r μs.
12. 42
13.
14. $2 = 1(2)$; $2 + 4 = 6 = 2(3)$; $2 + 4 + 6 = 12 = 3(4)$; Rule is $n(n + 1)$.
15. $n - 1$
16. About 5%(526) = 26 students will participate.
17. Possible answer: $y = -1$
18. Possible Answer: $x = -1$
19. $m\angle 1 = m\angle 2 = 90°$
20. Each term is the square of the previous term; $16^2 = 256$, $256^2 = 65{,}536$
21. Possible answer: each term is the previous term multiplied by $\frac{1}{2}$: $\frac{1}{16}$, $\frac{1}{32}$
22. The terms are multiples of 3 with alternating signs; -15, 18
23. $2n + 1$
24. T
25. F; possible answer: $n = 2$
26. F; possible answer:
27. T
28. Amount increases by about $50 per day. Therefore, about $300 + 2(50) = $400 is raised during the 6th day.

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Holt Geometry Chapter 8 Test Answers