

Unit 16.1

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|--------------------------------|----------------------------------|------------|------------------|
| 1. a) polygon; regular hexagon | b) no | c) polygon | d) no |
| e) polygon; not regular | f) polygon; equilateral triangle | | 3. 720° |
| 4. a) heptagon | b) octagon | c) hexagon | d) quadrilateral |
| 6. a) not | b) yes | c) yes | 5. 540° |
| 7. no | 8. rhombus | 9. 3 | 10. 8 |

Unit 16.2

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|-------|------|-------|-------|------|
| 2. 15 | 4. b | 5. 64 | 6. 76 | 7. 2 |
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Unit 16.3

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|--------------------------|---------------------|----------------|
| 1. a) translation | b) glide reflection | c) reflection |
| d) glide reflection | e) rotation | f) translation |
| 3. A,H,I,M,O,T,U,V,W,X,Y | 5. c | |

Unit 16.4

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|-----------|--------|-------------------|---------------|-----------------------|---------|
| 1. a) not | b) yes | c) yes | d) no | 2. d | 3. yes |
| 4. yes | 6. no | 7. a) 115° | b) 65° | c) $10\frac{1}{3}$ yd | d) 3 yd |
| 9. c | | | | | |

Unit 16.5

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|----------------------------|---------------------|------------|------------------------|
| 1. a) both, 72° | b) both 180° | c) line | 2. 3 lines |
| 3. a) 2 lines, 180° | b) 1 line, no | c) 2 lines | d) 4 lines; 90° |
| 4. yes | 5. 2; yes | | |
| 8. c | | | |

Unit 16.6

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|---------------------------|------|-------|--------------|
| 1. 4 | 2. 8 | 3. 48 | 4. $y=10x+2$ |
| 5. \$5.05; \$6.45; \$7.85 | | | |

Unit 16.7

1. 108 inch
2. 540°
4. 45
8. 7
9. 343 cm^3