

# Chapter 5 BLM Answers

## BLM 5-3 Chapter 5 Get Ready Extra Practice

1.  $26^\circ$  2.  $43^\circ$  3.  $137^\circ$  4.  $85^\circ$   
 5.  $145^\circ$  6.  $175^\circ$  7.  $17^\circ$  8.  $150^\circ$   
 9.  $66^\circ$  10.  $125^\circ$  11.  $168^\circ$  12.  $130^\circ$   
 13.  $71^\circ$  14.  $118^\circ$  15.  $54^\circ$  16.  $35^\circ$   
 17.  $104^\circ$  18.  $50^\circ$  19.  $95^\circ$  20.  $48^\circ$

## BLM 5-4 Chapter 5 Warm-Up

### Section 5.1

1. 3 cm 2. 90 3. 60 4. 90 5. 70

### Section 5.2

1. reflex 2. right 3. obtuse  
 4. acute 5. straight

### Section 5.3

2. George is marking the acute angle  $70^\circ$  on the protractor instead of the obtuse angle  $110^\circ$ .

### Section 5.4

1. complementary angles;  $59^\circ$   
 2.  $x = 123^\circ$ ;  $z = 123^\circ$ ;  $y = 57^\circ$   
 3. corresponding angles;  $77^\circ$   
 4. alternate exterior angles;  $100^\circ$   
 5.  $a = 74^\circ$ ;  $c = 74^\circ$ ;  $e = 74^\circ$ ;  $g = 74^\circ$ ;  
 $b = 106^\circ$ ;  $d = 106^\circ$ ;  $f = 106^\circ$

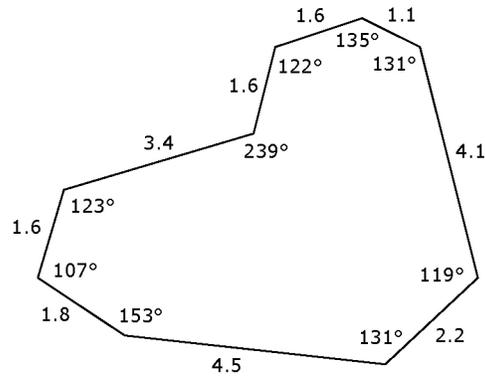
## BLM 5-8 Section 5.1 Extra Practice

1. a)  $45^\circ$  b)  $90^\circ$  c)  $180^\circ$  d)  $100^\circ$   
 e)  $270^\circ$  f)  $180^\circ$  g)  $60^\circ$  h)  $330^\circ$   
 i)  $90^\circ$  j)  $135^\circ$   
 2. a) acute b) right c) straight d) obtuse  
 e) reflex f) straight g) straight h) reflex  
 i) right j) obtuse  
 3. a)  $45^\circ$  b)  $90^\circ$  c)  $180^\circ$  d)  $100^\circ$   
 e)  $270^\circ$  f)  $180^\circ$  g)  $60^\circ$  h)  $330^\circ$   
 i)  $90^\circ$  j)  $135^\circ$   
 4. 1 =  $323^\circ$ ; 2 =  $37^\circ$ ; 3 =  $116^\circ$ ; 4 =  $64^\circ$ ;  
 5 =  $90^\circ$ ; 6 =  $75^\circ$ ; 7 =  $180^\circ$ ; 8 =  $119^\circ$ ;  
 9 =  $41^\circ$ ; 10 =  $139^\circ$   
 5. 1, reflex; 2, acute; 3, obtuse; 4, acute;  
 5, right; 6, acute; 7, straight; 8, obtuse;  
 9, acute; 10, obtuse

## BLM 5-10 Section 5.2 Extra Practice

2. a) Dale b) Dale has not aligned the vertex of the angle with the centre of the protractor.

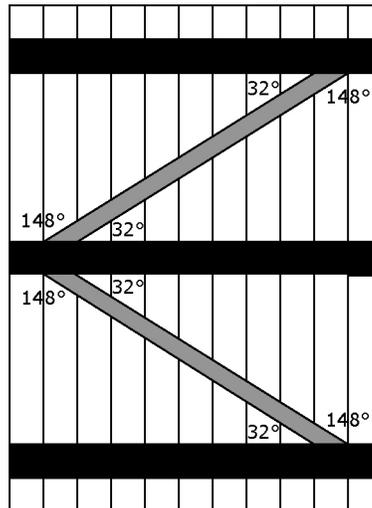
3. Angle measures and lengths are shown. Lengths are in centimetres.



5.  $100^\circ$ ;  $50^\circ$

## BLM 5-12 Section 5.3 Extra Practice

1. a) perpendicular b) neither c) neither  
 d) parallel  
 2. a) complementary b) neither  
 c) supplementary d) complementary  
 e) supplementary  
 3. a)  $x = 138^\circ$ ,  $y = 42^\circ$ ,  $z = 138^\circ$   
 b)  $p = 69^\circ$ ,  $q = 111^\circ$ ,  $r = 69^\circ$   
 4. a) alternate exterior b) interior  
 c) exterior d) corresponding  
 e) alternate interior  
 5. a)  $104^\circ$  b)  $98^\circ$  c)  $140^\circ$   
 d)  $63^\circ$  e)  $113^\circ$   
 6. a)  $a = 123^\circ$ ;  $c = 123^\circ$ ;  $e = 123^\circ$ ;  $g = 123^\circ$ ;  
 $b = 57^\circ$ ;  $d = 57^\circ$ ;  $f = 57^\circ$   
 b)  $h = 68^\circ$ ;  $j = 68^\circ$ ;  $l = 68^\circ$ ;  $n = 68^\circ$ ;  $i = 112^\circ$ ;  
 $k = 112^\circ$ ;  $m = 112^\circ$   
 7.



**BLM 5-14 Section 5.4 Extra Practice**

1. **a)**  $x = 97^\circ$ ,  $y = 83^\circ$    **b)**  $x = 129^\circ$ ,  $y = 129^\circ$   
**c)**  $x = 64^\circ$ ,  $y = 64^\circ$    **d)**  $x = 131^\circ$ ,  $y = 131^\circ$
2. **a)** no   **b)** yes   **c)** no   **d)** no
3. **a)**  $x = 96^\circ$    **b)**  $x = 127^\circ$
4.  $x = 135^\circ$ ,  $y = z = 57^\circ$

**BLM 5-15 Chapter 5 Test**

1. A   2. B   3. B   4. B   5. D   6. D   9.  $90^\circ$
10.  $135^\circ$    11.  $155^\circ$ ; If the angles between the board and each stud are not equal, the studs are not parallel.

