# EM 7H Assessment Test

# Test 2

## Answers

1. eg. $3.5, 3.1, 3.03$ (Others available)
2.

3. a) All internal angles add up to 360° or 2 pairs of parallel lines.
   b) All internal angles are equal/at right angles (90°).
4. 

| x | 4 | -2 | -5 |
|---|---|---|---|
| 3 | 12 | -6 | -15 |
| -2 | -8 | 4 | 10 |
| 6 | 24 | -12 | -30 |

5. a) (Many Solutions) b) $m = 7 \; and \; n = 5$
6. a) 11 hours 30 minutes b) 13.8 hours or 13 hours 48 minutes
7. a) **-1** 2 5 **8** **11** 14 b) **-7** **-3** 1 5 9 **13** c) -2 **3** **8** **13** **18** 23
8. 60°
9. $\frac{((n-5)\times 3)+7}{8} + n = 11$
10. $\frac{3}{10}$
11. $a = 6 \;\; b = 3, \;\; a = 7 \;\; b = 2, \;\; a = 8 \;\; b = 1, \;\; a = 9 \;\; b = 0$ (any 2 of these pairs)
12. $p = r + 1$
13. Fran
14. a) 6.8 b) Internal angles only equal 170°not 180°
15. a) 1.77 euros b) 1.8125
16. 

| | Male | Female |
|---|---|---|
| Adult | 7 | 8 |
| Child | 4 | 6 |

17. a) 1161 b) 26 r16, $26+\frac{16}{17}$ or 26.94 (2 d.p.)

18. a) $n = 105$ b) $n = 9$ c) $n = 154$

19. a) e.g of equation $4(x - 1) = (x + 8)$ b) 4

20. a) $n = 11$ b) $n = 2.5$