**Test #3 Review 2 – Key**

**Front Side**



**Back Side (Pythagorean) Extra Practice Answers**

**1.** *t* 2 = 62 + 82, *t* 2 = 36 + 64, *t* 2 = 100,

*t* = , *t* = 10, 10 cm

**2.** *e*2 + 122 = 132, *e*2 + 144 = 169,

*e*2 + 144 – 144 = 169 – 144, *e*2 = 25, *e* = , *e* = 5, 5 cm

**3. a)** *d* 2 = 122 + 202, *d* 2 = 144 + 400,

*d* 2 = 544, *d* ≈ 23.3, 23.3 cm

**b)** *z* 2 = 82 + 102, *z* 2 = 64 + 100, *z* 2 = 544,

*z* ≈ 12.8, 12.8 cm

**4. a)** 112 + *w* 2 = 172, 121 + *w* 2 = 289,  
 121 – 121 + *w* 2 = 289 – 121, *w* 2 = 168,

*w* ≈ 13, 13 m

**b)** *p*2 + 132 = 182, *p*2 + 169 = 324,   
 *p*2 + 169 – 169 = 324 – 169, *p*2 = 155,   
 *p* ≈ 12, 12 m