

p 371

$$1. A = \frac{1}{2} d D$$

$$d = 4m$$

$$D = 3m$$

$$A = \frac{1}{2} (4)(3)$$

$$A = \frac{1}{2} (12)$$

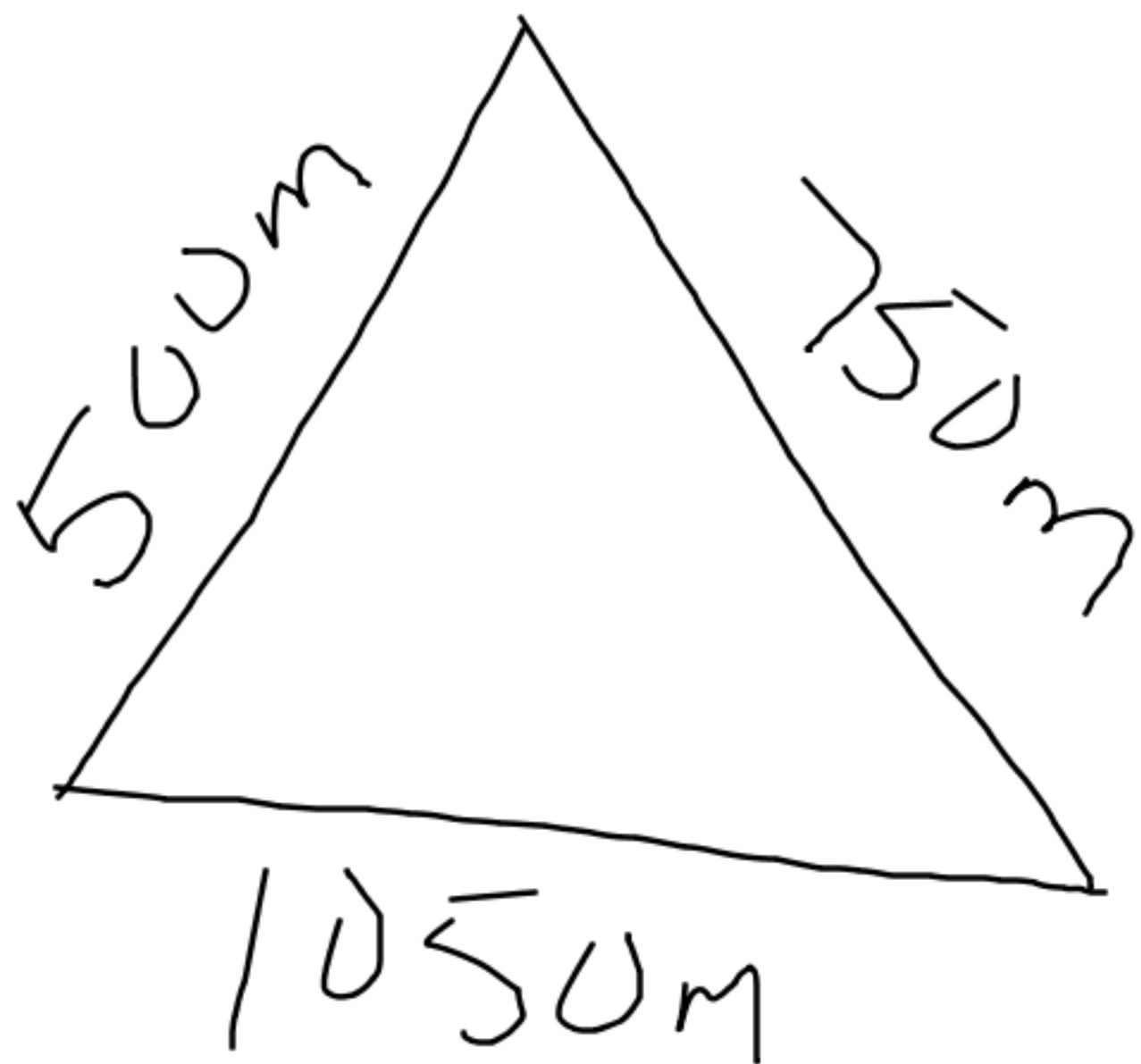
$$A = 6m$$

$$2. \quad h = 198 - 0.9a$$

$$h = 198 - 0.9(16)$$

$$h = 198 - 14.4$$

$$h = 183.6 \text{ beats per minute}$$



$$A = \sqrt{s(s-a)(s-b)(s-c)}$$

$$A = \sqrt{1150(1150-500)}$$

$$(1150-750)(1150-1050)$$

$$A = \sqrt{1150(650)(400)(100)}$$

$$A = \sqrt{747,500(40,000)}$$

$$A = \sqrt{29,900,000,000}$$

$$A = 172,916.16 \text{ m}^2$$

$$s = \frac{a+b+c}{2}$$

$$s = \frac{500+750+1050}{2}$$

$$s = 1,150$$

8.

$$a) (-3)^2$$
$$= 9$$

$$b) -3^2$$
$$= -9$$

$$c) -3^{-2}$$
$$= \frac{-1}{3^2} = -\frac{1}{9}$$

$$d) (-3)^{-2}$$
$$= \frac{1}{9}$$

$$9a) \quad p^4 \times p^{-2}$$

$$= p^2$$

$$b) \quad p^3 \div p^8$$

$$= p^{-5}$$

$$c) \quad (p^{-2})^5$$

$$= p^{-10}$$

10

$$a) x^7 y^{-2} x^3$$

$$= \frac{x^{10}}{y^2}$$

$$= \frac{(-3)^{10}}{4^2}$$

$$= \frac{-59049}{16}$$

$$x = -3 \quad y = 4 \quad z = 5$$

$$b) \frac{x^5 y^2 z^3}{x^{-1} y^0 z}$$

$$= x^6 y^2 z^2$$

$$= (-3)^6 (4)^2 (5)^2$$

$$= 729 (16) (25)$$

$$= 291,600$$

$$12.a) \quad 16^{\frac{1}{2}} \\ = \sqrt[2]{16} \\ = 4$$

$$b. \quad 64^{\frac{1}{3}} \\ = \sqrt[3]{64} \\ = 4$$

$$\rightarrow 25^{\frac{3}{2}} \\ = \left(\sqrt[2]{25} \right)^3 \\ = 5^3$$

quest fun thing
Wed.

$$= 125$$

P. 400

1. $E = 2500 + 10 \underline{\leq}$

$$E = 2500 + 10(800)$$

$$E = 2500 + 800$$

$$E = \text{\$} 3300$$

Suzie earned $\text{\$} 3300$ that month

$$3. \quad C = 0.006h + 0.45$$

$$C = 0.006(1000) + 0.45$$

$$C = 6 + .45$$

$$C = 6.45$$

$$6.45$$

$$- 5.05$$

$$\$1.40$$

$$C = 0.004h + 1.05$$

$$C = 0.004(1000) + 1.05$$

$$C = 4 + 1.05$$

$$C = 5.05$$

∴ Home would save
\$1.40 using energy saver bulbs