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Q1

1.1 a.) $(50.3 + 25) \times 21$

$= R\ 3675$

b.) $\frac{204 - 50}{50} \times 100$

$= 308\%$

c.) $\frac{204}{12.89} = €\ 15.83$

d.)

1.2 a.) $200 + 62 + 31$

$= R293$

b.) FA6:

$R\ 1595$

BD3:

$R\ 945 + 186 + 93$

$= R1224$

Crocodile Bridge is cheaper.

1.3 a.) viewpoint picnic site

b.) $15\text{cm} : 130.5\text{km}$

$15 : 13050000$

$1 : 870000$

c.) 10875000cm
 $= 108.75\text{km}$

d.) Paul Kruger closer.

Q2

2.1 a.) $\sqrt{2^2 + 3^2}$

$= \sqrt{13}$

$= 3.61\text{m}$

b.) $\pi \cdot 3 \cdot \sqrt{13}$

$= 33.98\text{m}^2$

c.) $2\pi \cdot 2.5 \times 3$

$= 47.12\text{m}^2$

2.2 a.) $\pi \cdot 2.5^2 - \frac{1}{2}\pi \cdot 1.25^2$

$= 17.18\text{m}^2$

b.) $17.18 \times 18 = 309.25\text{m}^2$

$\frac{309.25}{0.25} = 1237.002\text{ tiles}$

$= 1238\text{ tiles}$

$\frac{1238}{50} = 24.76 \approx 25\text{ boxes.}$

c.) No, Bathroom takes up too much living space.

Q3.

3.1 $d = 1500t$

3.2 $d = 500 + 1330t$

3.3 B, starts at 500m

3.4 $1500t = 500 + 1330t$

$170t = 500$

$t = 2.94\text{ minutes}$

3.5 The cheetah catches the Buck.

3.6 No, the buck has been caught.

Q4

4.1 $49000 \times 12 = R\ 588000$

$128400 + \frac{38}{100}(588000 - 484000)$

$- 11440$

$= 156480$

$\frac{156480}{12} = R\ 13040$

4.2 2863.33×12

$= 34359.96 + 11440$

2nd bracket:

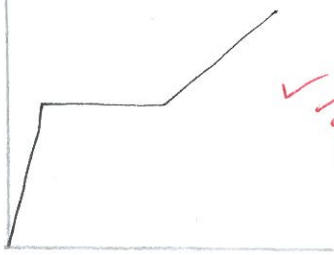
$45799.96 = 28800 + \frac{25}{100}(x - 160000)$

$x = R\ 227999.84$

Q5

5.1 a.) B

b.)



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Q7

7.2

7.3

5.2 a.) $395 \times 1,1449 = 452,24$

$452,24 + \frac{14}{100}(452,24)$

$= R 515,55$

b.) Block 2:

$\frac{251,94}{0,8840} = 285 \text{ kwh}$

c.) $123,99 \times \frac{100}{114}$

$= R 108,76$

d.) They want you to use less electricity.

Q6

6.1

6.2

6.3 wilderness

Karoo

Kruger

Mapungubwe

Mountain zebra

6.4 $\frac{1429904 - 1386287}{1429904} \times 100$

1429904

3,05 % decrease

6.5

 $\bar{x}$ Q_2 Q_1 Q_3

$312345,62$

26675

8142

146456

$26788,55$

2956

647

8427

$26022,27$

6.6

$0,027 \quad 0,647 \quad 2,956$

$8,427$

$249,609$

6.7

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