GRADE 11

TERM 3

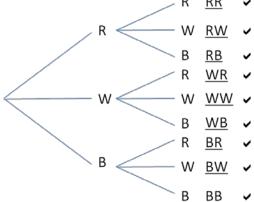
PROBABILITY – PORTFOLIO ASSIGNMENT MEMORANDUM



Marks: 45

1.
$$\frac{8}{24} \checkmark = \frac{1}{3} \checkmark$$
 (2)

Yes ✓ as the first token is replaced, keeping the total number of tokens and the number of red tokens the same. ✓ ✓



3. $B B B \checkmark$

4.
$$\frac{1}{9} \checkmark \checkmark$$
 (2)

5.
$$\frac{1}{9} \times 100 \checkmark = 11\% \checkmark$$
 (2)

6.
$$100 - 11 \checkmark = 89\% \checkmark$$
 (2)

8.
$$400 \times 5 \checkmark = R2\ 000 \checkmark$$
 (2)

9.
$$0.11 \checkmark x400 \checkmark = 44 \text{ people }\checkmark$$
 (3)

10.
$$44 \times 10 \checkmark = R440 \checkmark$$
 (2)

11.

a.
$$\frac{2}{9} \checkmark \checkmark (\checkmark \text{ denominator and } \checkmark \text{ numerator})$$
 (2)

b.
$$\frac{3}{9} = \frac{1}{3} \checkmark \checkmark$$
 (2)

c.
$$\frac{4}{9} \checkmark \checkmark$$
 (2)

d.
$$\frac{3}{9} = \frac{1}{3} \checkmark \checkmark$$
 (2)

12. The game can be adjusted by making it an equal chance of winning and losing ✓ so you could have only 2 colours ✓ and have an option of winning with either two of the same and one specific colour first ✓ or you can have more colours but have a scenario with a 50% (or close to 50%) chance of winning. ✓ (any answer that shows understanding of fair game play with an example) (5)