

Answers

Activity 1

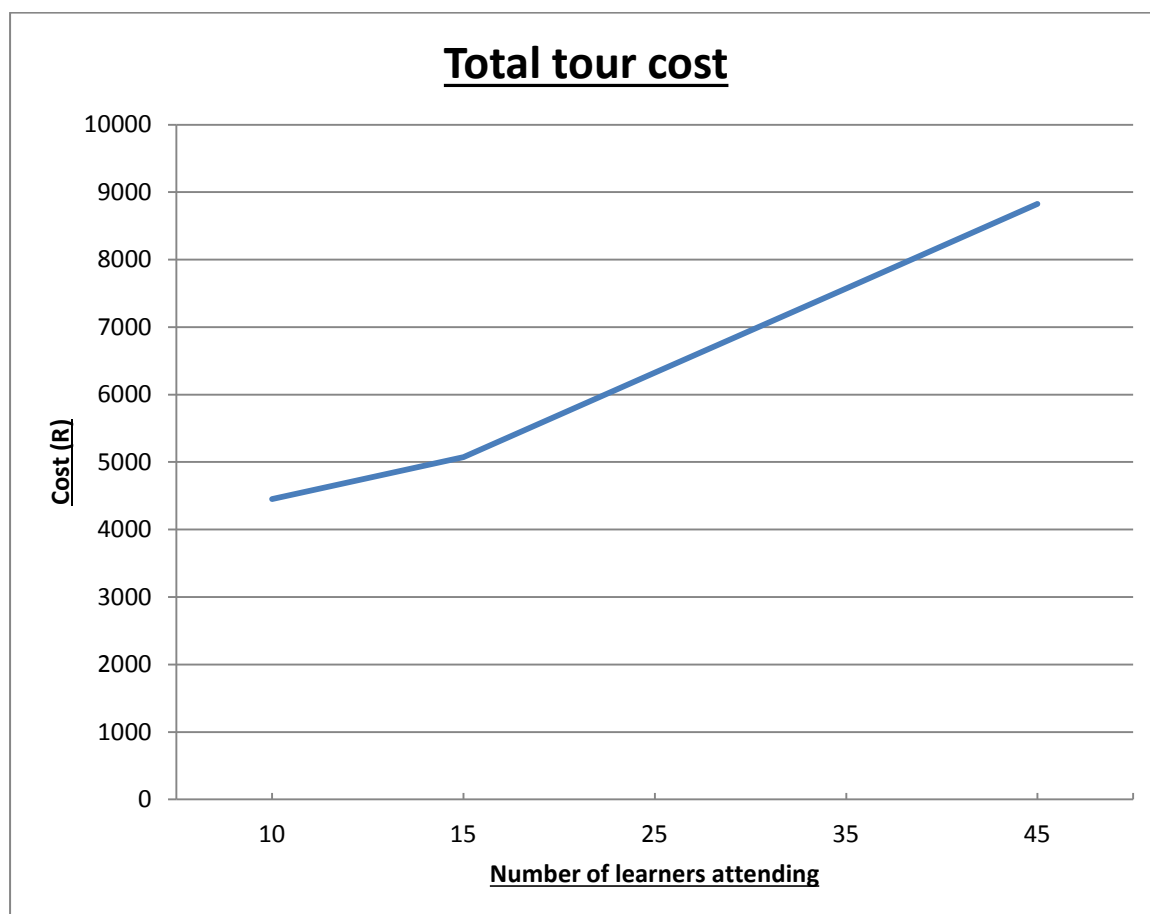
- The price for the bus is a fixed cost. This cost remains the same regardless of how many children go.
- The cost of the tour per learner is variable. This amount changes (varies) depending on how many learners go on the tour.
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No. Learners	10	15	25	35	45
Cost / learner (R)	320	R213.33	R128	R91.43	R71.11

- Inverse proportion – as one value increases (the number of students) the other value decreases (the cost per person).
- $y = 3\,200 + (125x)$
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No. Learners (x)	10	15	25	35	45
Total Cost (R) (y)	4 450	5 075	6 325	7 575	8 825

7.



8. $3\ 200 + (125 \times 43) = 8\ 575$
 $8\ 575 \div 43 = R199.42$
 $= R200$

Activity 2

- In 2002. It was R10.52 to the dollar.
- In 1994. It was R3.55 to the dollar.
- The price of a dollar increased (the rand weakened) steadily from 1994 to its peak 2002. The price of the dollar then dropped (the rand strengthened) gradually until 2014 with a slight dip in 2009.
- There is no specific relationship shown on the graph – the values do not correspond to one another at all.
- No – the price of a dollar does not depend on the year. It is random in the context of the graph.
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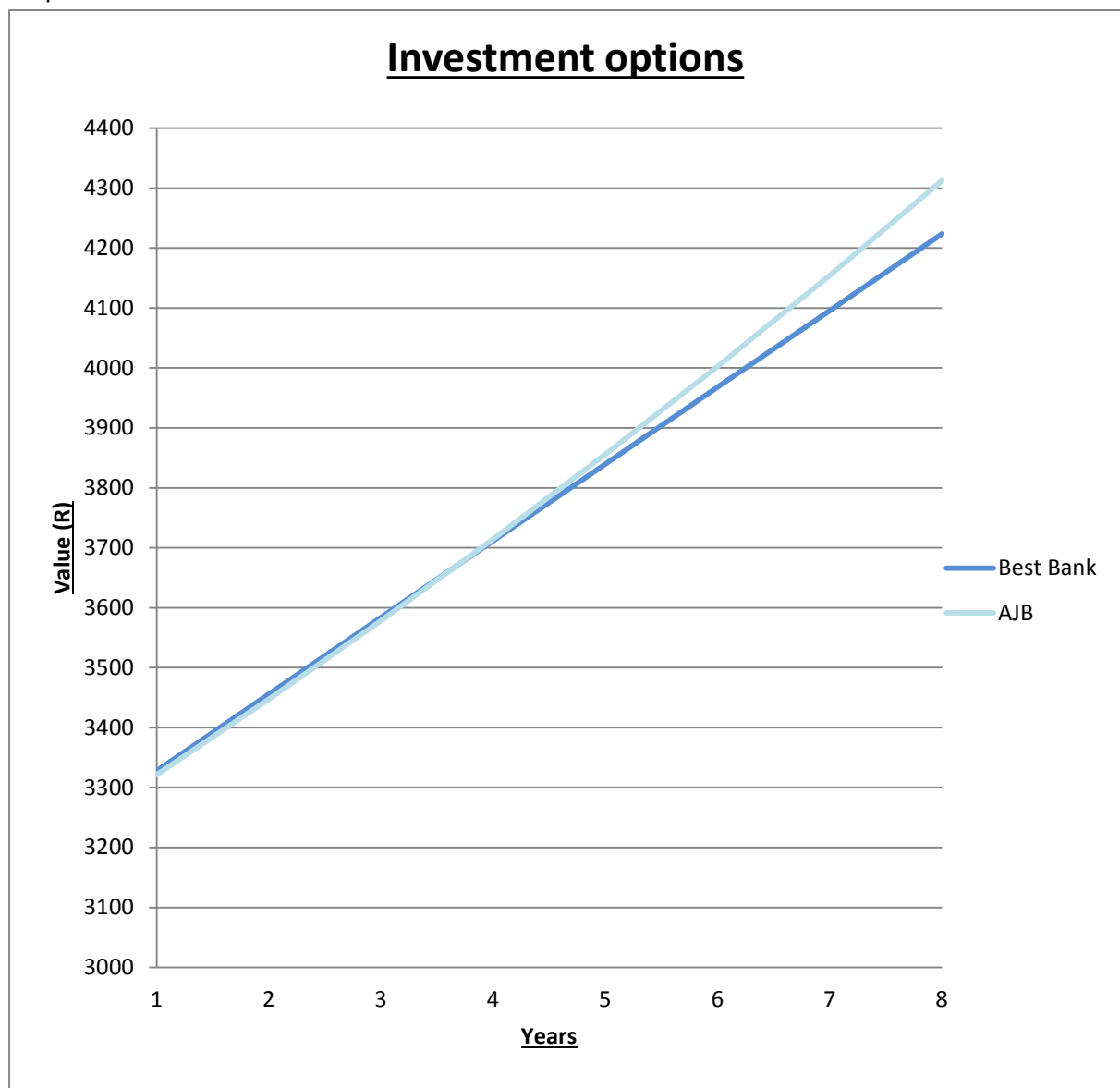
Year	1994	1998	2002	2006	2010	2014
Cost of \$1 in Rand	3.55	5.53	10.52	6.76	7.32	10.50

Activity 3

1.

	1	2	3	4	5	6	7	8
Best Bank	R3 328	R3 456	R3 584	R3 712	R3 840	R3 968	R4 096	R4 224
AJB	R3 321.60	R3 447.82	R3 578.84	R3 714.84	R3 856	R4 002.53	R4 154,63	R4 312.51

2. Graph:



- The compound interest investment / AJB
- After four (4) years
- The simple interest investment / Best Bank. The investment grows by the same amount every year – a constant growth. This is illustrated by the straight line on the graph.
- She should choose AJB / the compound interest investment. Although it starts out giving her less money, it reaches her goal amount sooner.