



- (d) (i) Day to -50                      (ii) Day to -28

6. (a)

$p$	0	1	2	3	4	5	6
$A$	0	3	12	27	48	75	108



- (c) (i)  $80 \text{ m}^2$                       (ii)  $75 \text{ m}^2$

7. (a)

<b>Number of T-shirts</b>	10	30	50	70
<b>Cost (RM)</b>	100	200	300	400

- (b) RM 50  
 (c) RM 390  
 (d) 72 pieces
8. (a) 15 m  
 (b) 1.5 second and 6.5 second  
 (c) 8 second  
 (d) 16 m  
 (e) Ascending and descending

9. (a) RM8  
 (b) Company A because it only charges RM4 per hour used whereas company B charges RM5 per hour used.  
 (c) Company B with RM7, Zarul could use the bicycle for 3 hours whereas company A allows use for 2 hours 30 minutes only.  
 (d) the first 2 hours.  
 (e) RM10
10. (a) (i) RM 3                      (ii) RM2.80  
 (b) Berjaya Company because it charges RM40 whereas Maju company charges RM5.  
 (c) Umair has to choose Berjaya Company because he can speed longer than with Maju Company.

### CHAPTER 9 SPEED AND ACCELERATION

#### SELF PRACTICE 9.1

- 1.
2. (a) 120 km                      (b) 1543.5 km  
 (c) 16.5 m                      (d) 666.67 km
3. 8.29 m/s
4. hour 1154
5. (a) 833.33 m/min                      (b) 2.88 km/h  
 (c) 1.83 km/minute
6. 114.29 km/h
7. 93.24 km/h

#### SELF PRACTICE 9.2

1. 

Situation	Acceleration	True / False
(a)		True
(b)		False
(c)		True
(d)		False
2. (a)  $100 \text{ km/h}^2$                       (b)  $-360 \text{ km/h}^2$
3.  $0.5 \text{ ms}^{-2}$
4.  $8.75 \text{ cms}^{-2}$

#### GENERATING EXCELLENCE

1. Constant Speed: lift, clock, fan  
 Irregular Speed: wave, wind, mini bus
2. (a)  $180 \text{ km/h}^2$                       (b)  $-200 \text{ km/h}^2$   
 (c)  $120 \text{ km/h}^2$
3. (a) 30 minute                      (b) 7:10 morning
4. (a)  $A = 185 \text{ km}$ ,                       $B = 185 \text{ min}$