1. Father told his son, "I am four times as old as you".
His son is 12 years old. After how many years will the father be 3 times as old as his son?
A. 2
B. 4
C. 6
D. 8

Answer: (C)
Age of his son = 12 years
Age of father = 12 × 4 = 48 years
Let after x years father will be 3 times as old as his son.
Then, 48 + x = 3(12 + x)
→ 48 + x = 36 + 3x
→ 3x – x = 48 – 36 = 12
→ 2x = 12
→ x = 6

So, the correct answer is **C 6**.

2.

TRAIN TIMETABLE			
North Sydney	07:12	07:19	07:27
Milsons Point	07:14	07:21	07:29
Wynyard	07:18	07:25	07:33
Town Hall	07:22	07:29	07:37
Central	07:26	07:33	07:41

What is the timetable of the latest train Richard can catch at Milsons Point to get to Town Hall by 7:40 am?
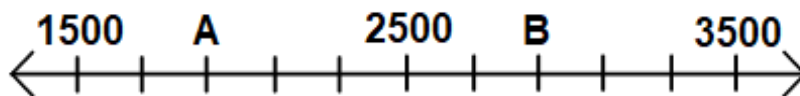**A.** 7:18 am
B. 7:25 am
C. 7:27 am
D. 7:29 am

Answer: (D)
Richard can catch the train at Milsons Point at 7:29 am to get to Town Hall by 7:37 am (within 7:40 am).

TRAIN TIMETABLE			
North Sydney	07:12	07:19	07:27
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Town Hall	07:22	07:29	07:37
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So, the correct answer is **D 7:29 am**.

3.

The distance between the points A and B is:
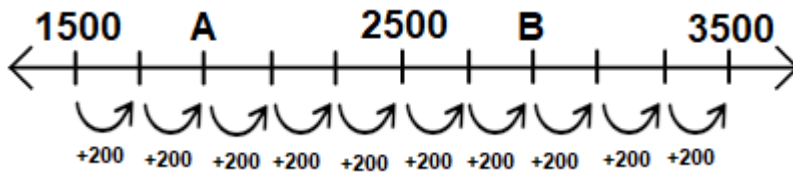A. 1000
B. 1200
C. 1400
D. 1500

Answer: (A)
Difference between 2500 and 1500 = 2500 − 1500 = 1000
Difference of each of the small dots on the number line from 1500 to 2500 represents = 1000 ÷ 5 = 200
Therefore, the value of A is = 1500 + 400 = 1900 and the value of B is = 2500 + 400 = 2900

So, the distance between points A and B is = 2900 − 1900 = 1000.

So, the correct answer is **A 1000**.

4. ▲ represents a number.

$$3 \times (▲ - 1) + 7 = 64$$

What is the value of ▲?
A. 10
B. 15
C. 20
D. 25

Answer: (C)

$3 \times (▲ - 1) + 7 = 64$

➔ $3 \times (▲ - 1) = 64 - 7 = 57$

➔ $(▲ - 1) = 57 \div 3 = 19$

➔ ▲ = 19 + 1 = 20

Therefore, the value of ▲ = 20

So, the correct answer is **C 20**.

5. A farmer kept some cows and hens on his property.
If the number of legs is 18, more than twice the number of heads, this means that the number of cows is:

A. 7
B. 9
C. 11
D. 13

Answer: (B)
Let the number of cows is x and the number of hens is y.
Then, $4x + 2y = 2(x + y) + 18$
→ $4x + 2y = 2x + 2y + 18$
→ $4x + 2y - 2x - 2y = 18$
→ $2x = 18$
→ $x = 9$
Therefore, the number of cows is 9.
So, the correct answer is **B 9**.