

Paper Reference 1MA1/3F  
Pearson Edexcel  
Level 1/Level 2 GCSE (9–1)

Mathematics  
Paper 3  
(Calculator)  
Foundation Tier

Monday 11 November 2019 – Afternoon

Diagram Book

In the boxes below, write your name, centre number and candidate number.

|                  |  |  |  |  |  |
|------------------|--|--|--|--|--|
| Surname          |  |  |  |  |  |
| Other names      |  |  |  |  |  |
| Centre Number    |  |  |  |  |  |
| Candidate Number |  |  |  |  |  |

## INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

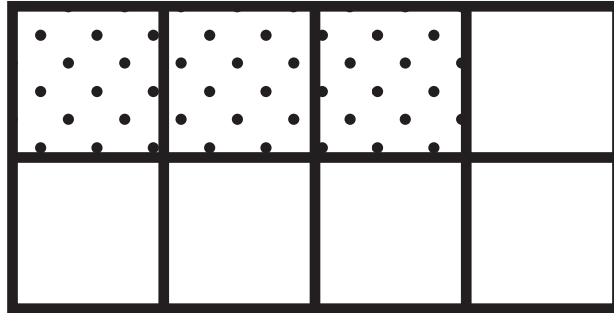
**THIS DIAGRAM BOOK MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.**

## **Contents**

### **Page**

|           |                                    |
|-----------|------------------------------------|
| <b>4</b>  | <b>Question 6</b>                  |
| <b>5</b>  | <b>Question 9(a)</b>               |
| <b>6</b>  | <b>Question 9(b)</b>               |
| <b>7</b>  | <b>Question 9(b) (Spare copy)</b>  |
| <b>8</b>  | <b>Question 10(a)</b>              |
| <b>9</b>  | <b>Question 10(b)</b>              |
| <b>10</b> | <b>Question 12</b>                 |
| <b>11</b> | <b>Question 13</b>                 |
| <b>12</b> | <b>Question 14(a)</b>              |
| <b>13</b> | <b>Question 14(b)</b>              |
| <b>14</b> | <b>Question 16</b>                 |
| <b>15</b> | <b>Question 16 (Spare copy)</b>    |
| <b>16</b> | <b>Question 17(b)</b>              |
| <b>17</b> | <b>Question 17(b) (Spare copy)</b> |
| <b>18</b> | <b>Question 18</b>                 |
| <b>19</b> | <b>Question 18 (Spare copy)</b>    |
| <b>20</b> | <b>Question 20</b>                 |
| <b>21</b> | <b>Question 20 (Spare copy)</b>    |
| <b>22</b> | <b>Question 24</b>                 |
| <b>23</b> | <b>Question 25</b>                 |
| <b>24</b> | <b>Question 27</b>                 |
| <b>25</b> | <b>Question 29</b>                 |
| <b>26</b> | <b>Question 30</b>                 |

## Question 6



Question 9(a)

|        |         |         |
|--------|---------|---------|
| dog    | cat     | dog     |
| cat    | rabbit  | cat     |
| dog    | cat     | rabbit  |
| rabbit | dog     | hamster |
| dog    | hamster | cat     |
| dog    | dog     | dog     |

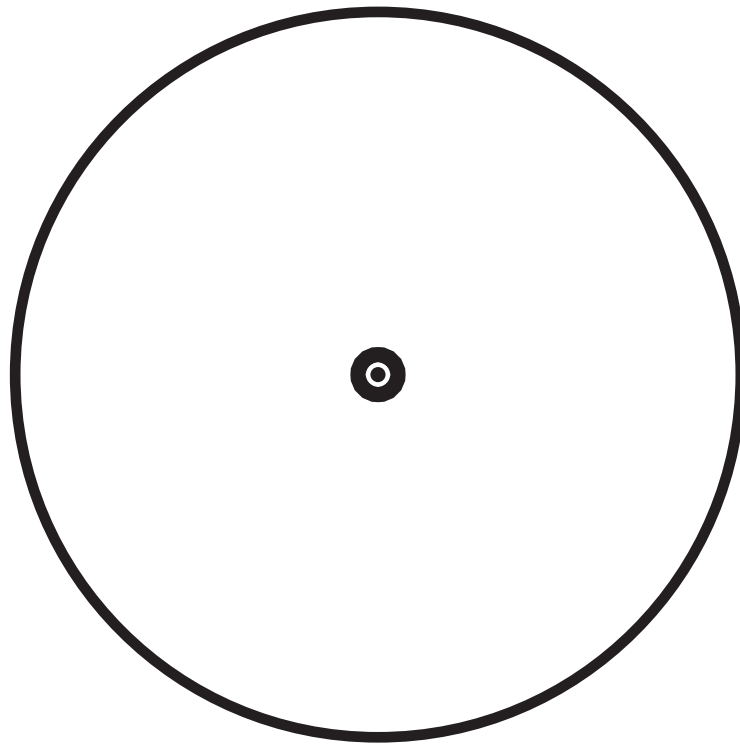
### Question 9(b)

[illegible]

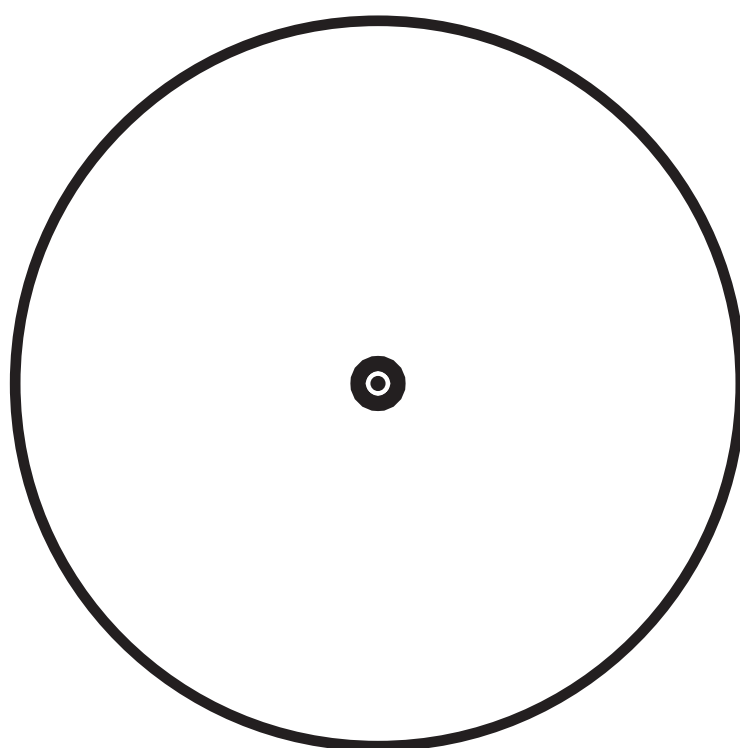
### Question 9(b)

[illegible]

Question 10(a)

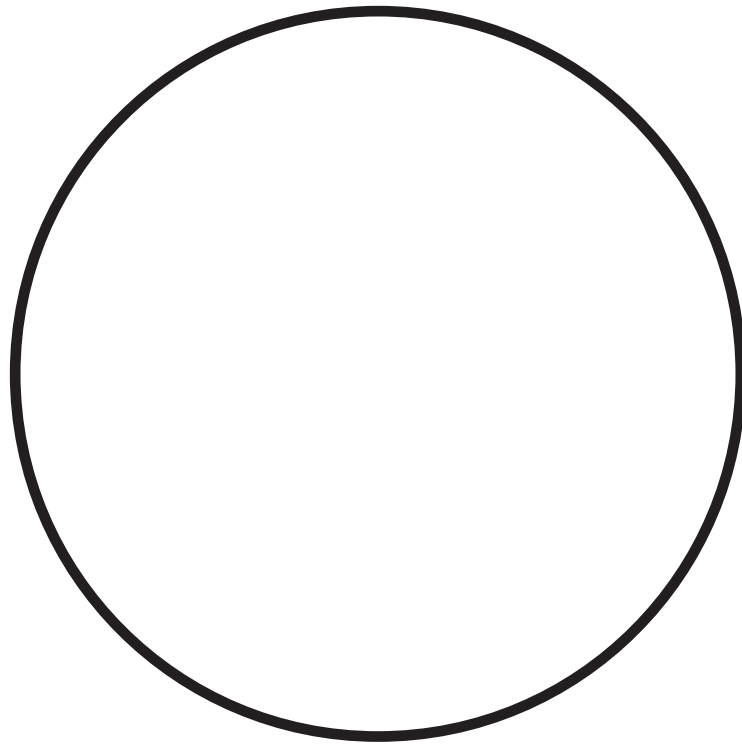


Question 10(a) (Spare copy)

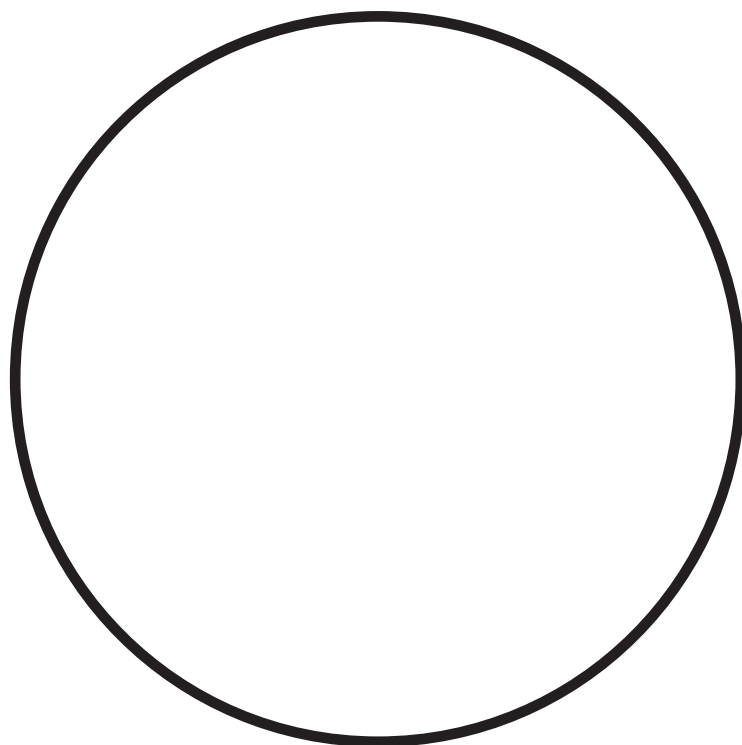




Question 10(b)



Question 10(b) (Spare copy)



Question 12

| Size of box | Weight of cornflakes |
|-------------|----------------------|
| small       | 450 grams            |
| large       | 750 grams            |

Question 13

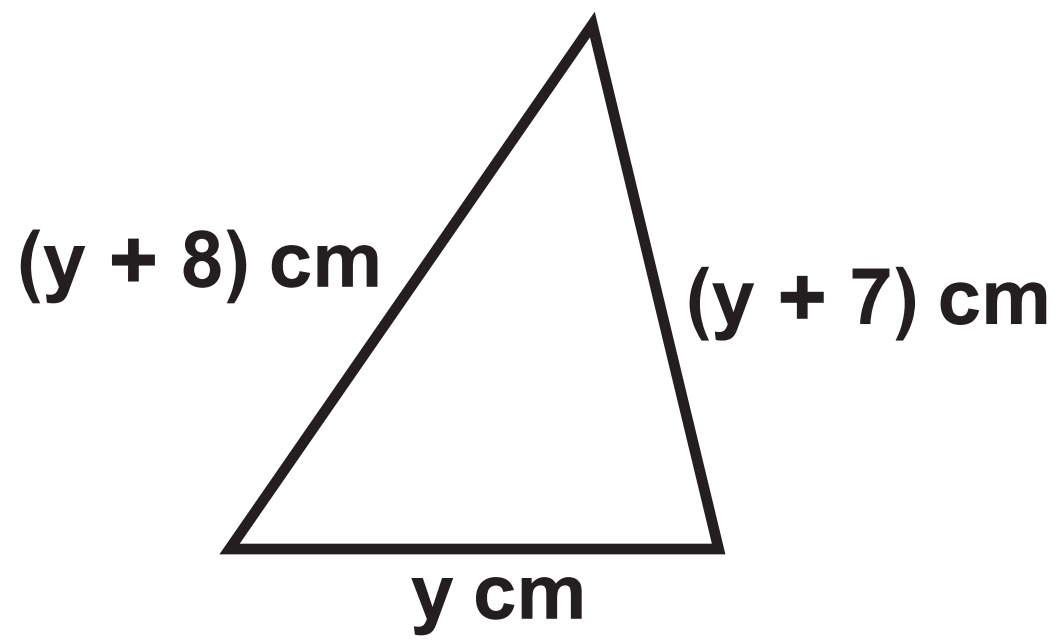
Key: 4| 2 represents 42 years

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 3 | 1 | 4 | 5 |   |   |   |
| 4 | 0 | 2 | 2 | 5 | 6 |   |
| 5 | 0 | 1 | 7 | 7 | 8 | 9 |
| 6 | 3 | 4 | 5 | 9 |   |   |
| 7 | 0 | 4 |   |   |   |   |

Question 14(a)



Question 14(b)



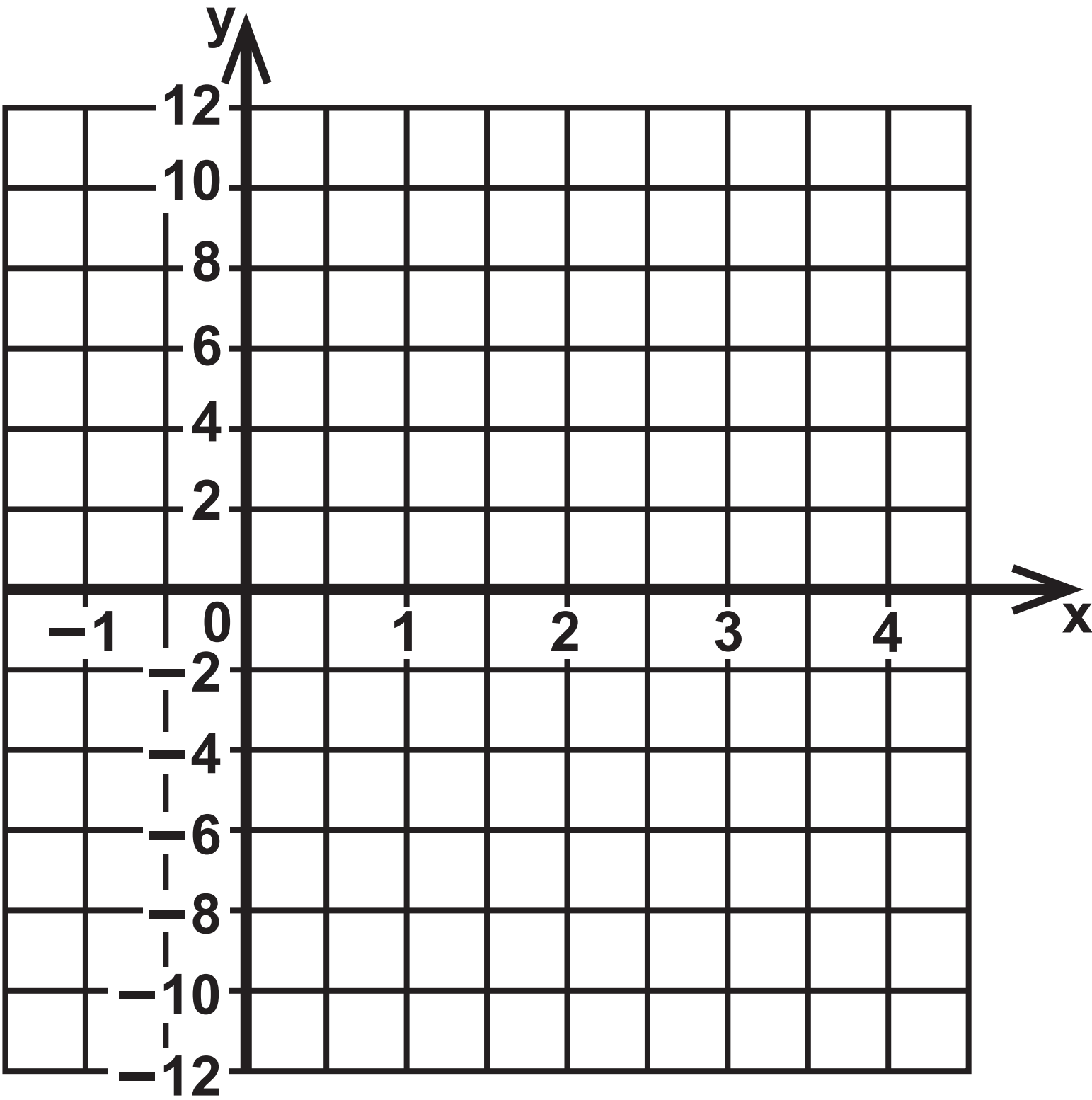
Question 16

| Colour | Probability |
|--------|-------------|
| red    | 0·4         |
| blue   |             |
| green  |             |
| yellow | 0·25        |

Question 16

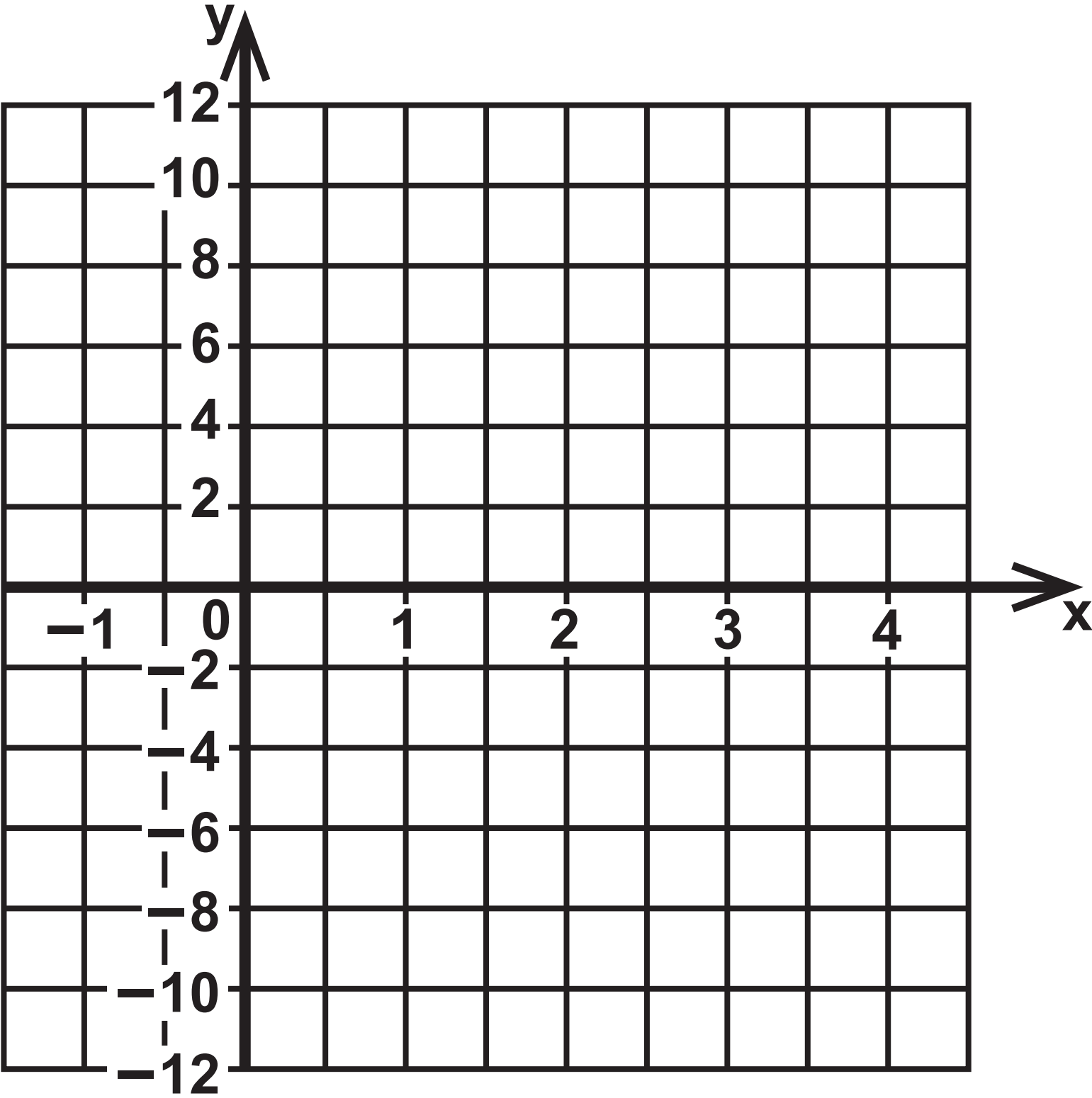
| Colour | Probability |
|--------|-------------|
| red    | 0.4         |
| blue   |             |
| green  |             |
| yellow | 0.25        |

Question 17(b)

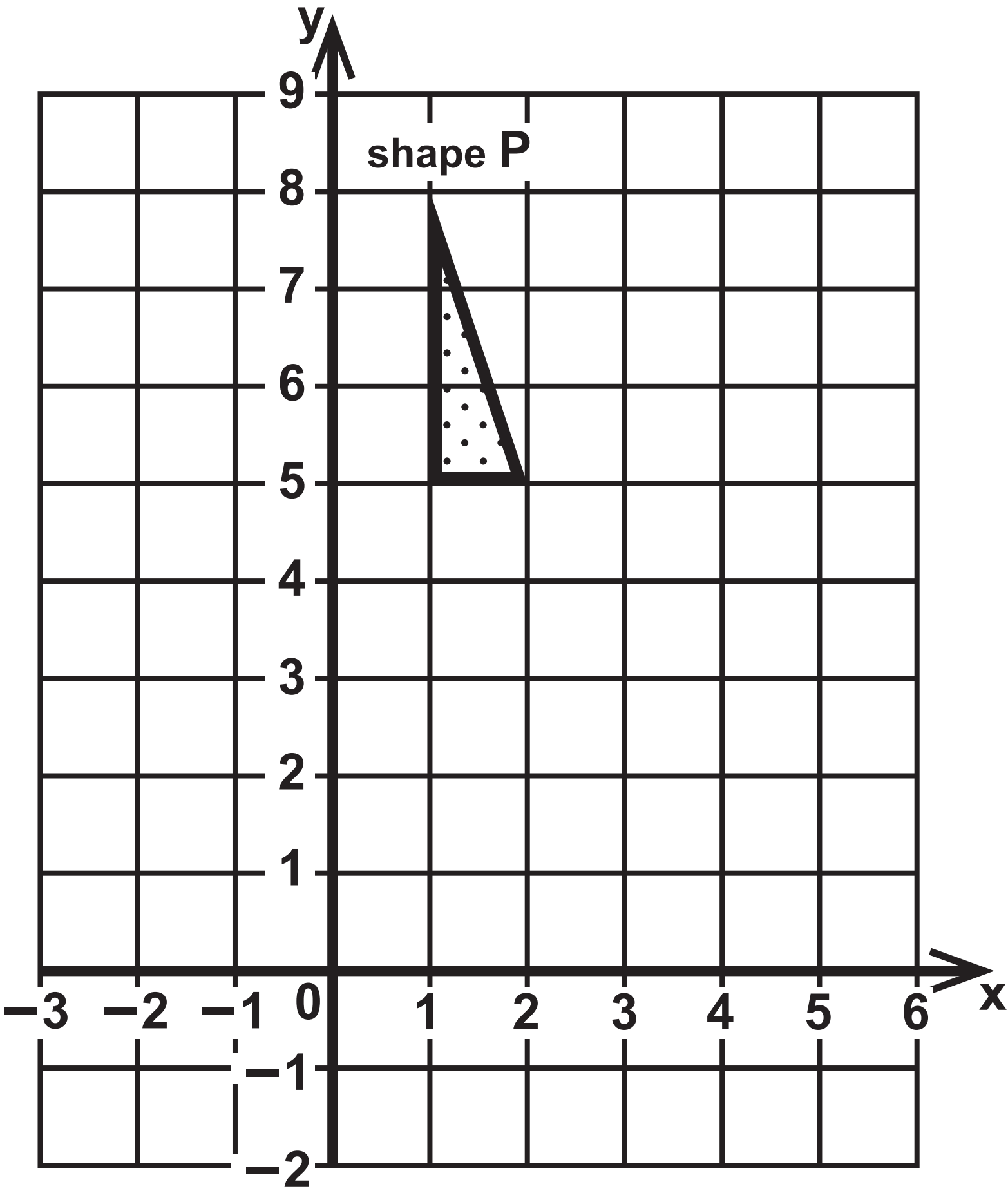




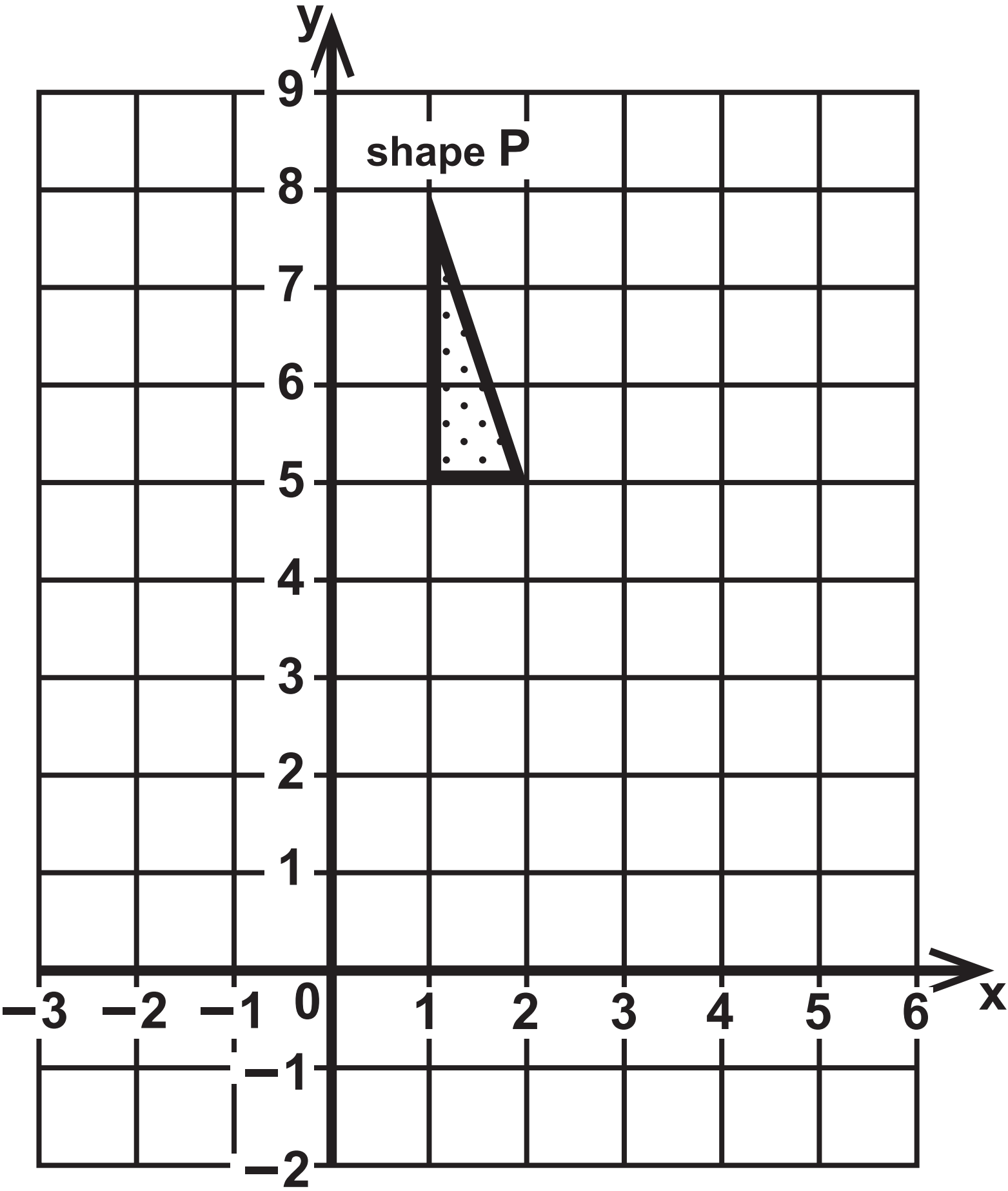
Question 17(b)



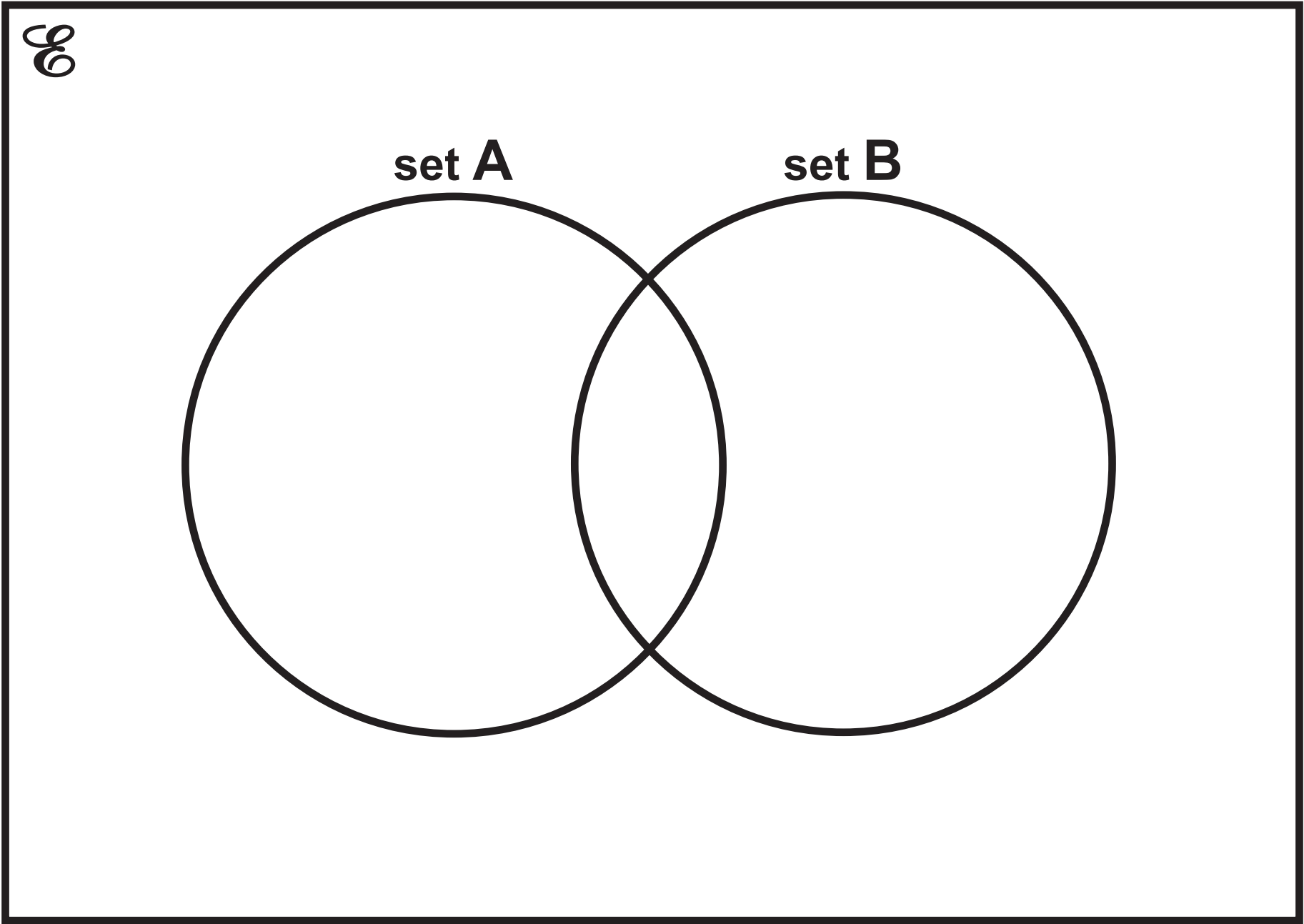
Question 18



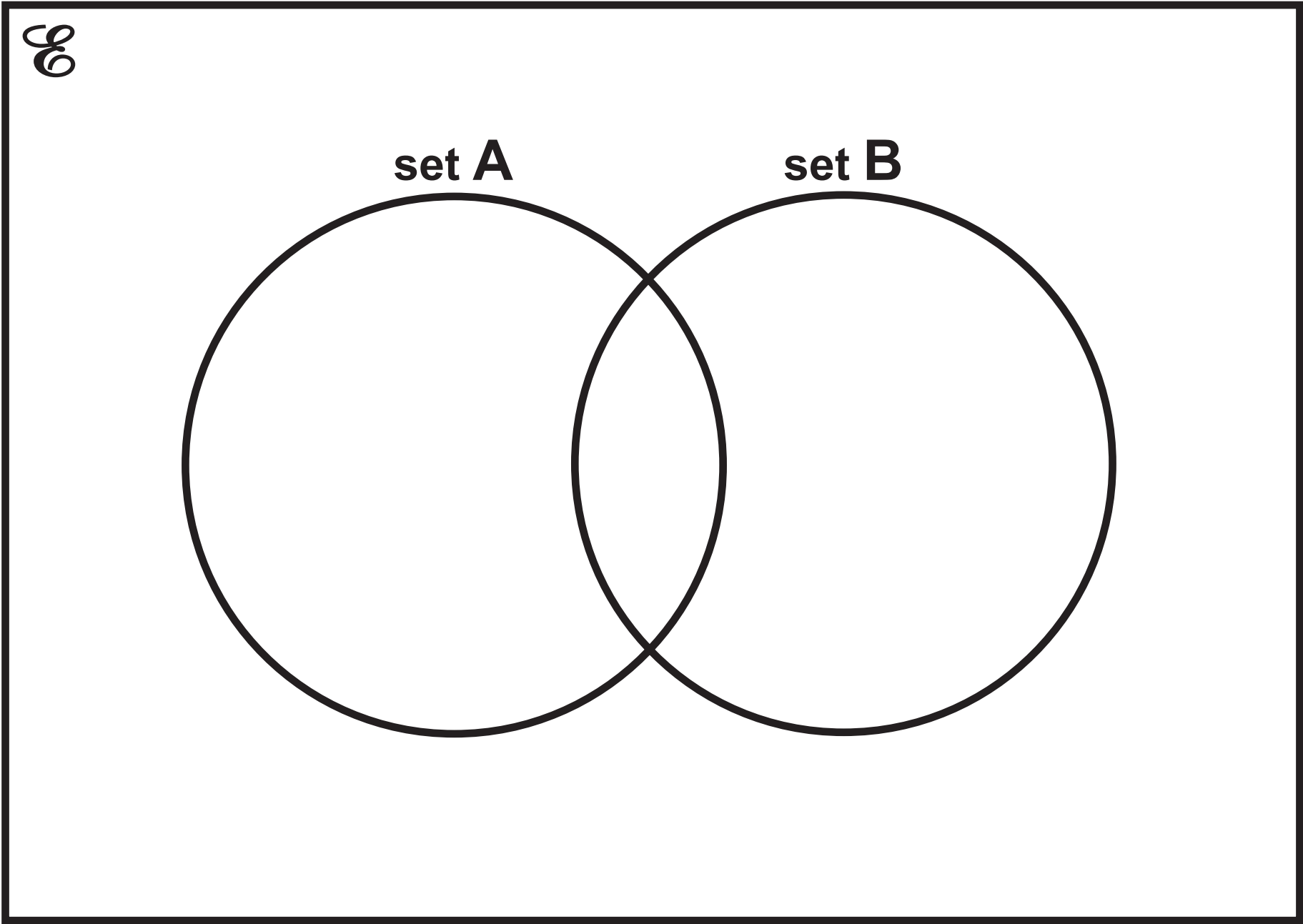
Question 18



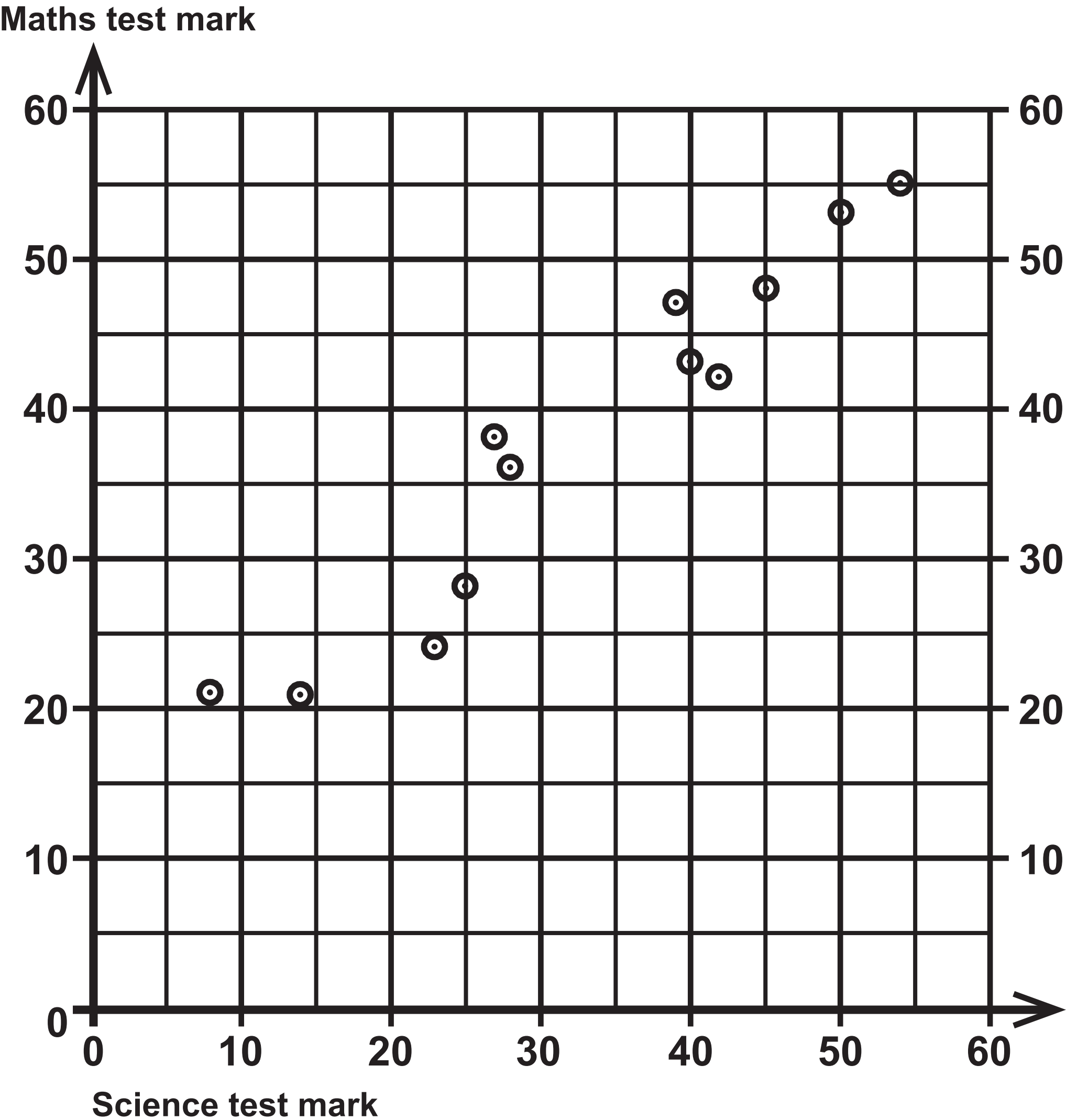
Question 20



Question 20



Question 24



Question 25

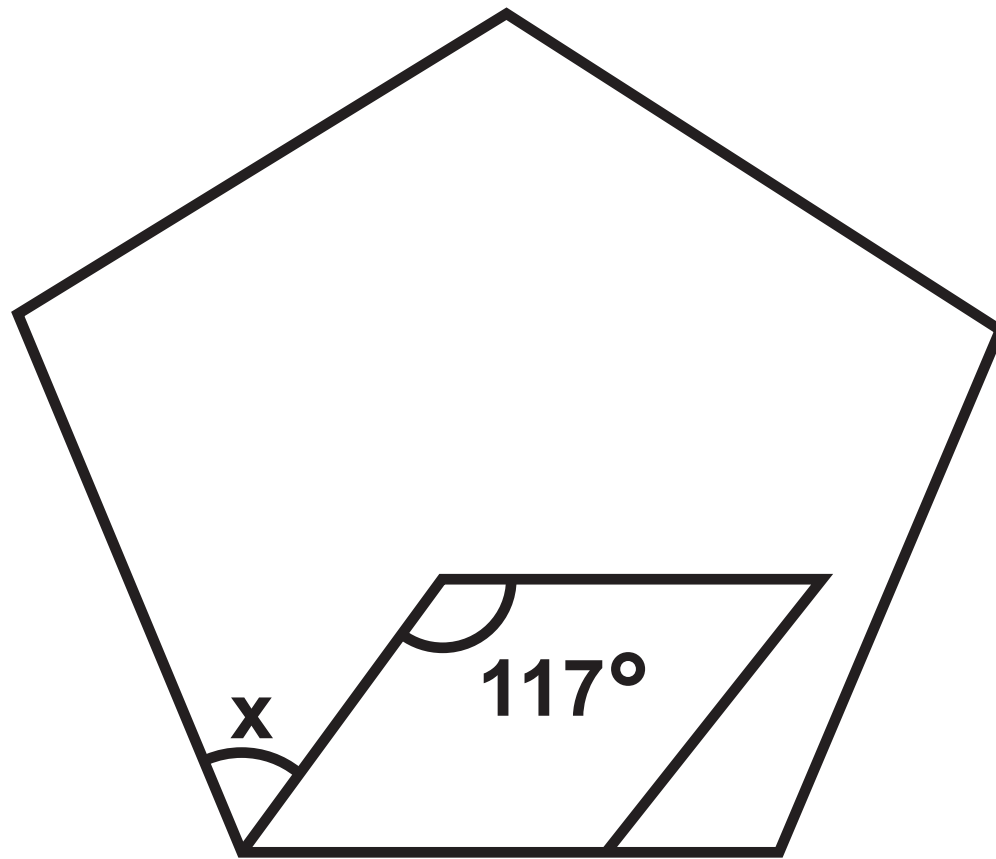
| Time (t seconds) | Frequency |
|------------------|-----------|
| $5 < t \leq 10$  | 1         |
| $10 < t \leq 15$ | 2         |
| $15 < t \leq 20$ | 7         |
| $20 < t \leq 25$ | 8         |

Question 27

|                         |          |
|-------------------------|----------|
| Time                    | 13 30    |
| Distance to destination | 65 miles |

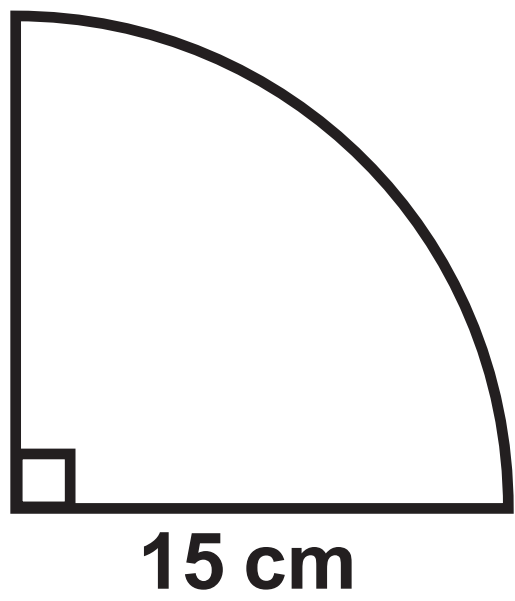


Question 29



Question 30

shape A



shape B

