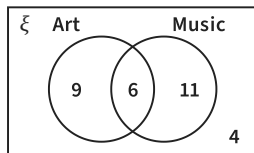


Conditional probability: Venn diagrams

Exit ticket **ANSWERS** Name _____

- 1 The diagram shows 30 students. Find the probability that a student studies music, given that they study art.

$$\frac{6}{15} = \frac{2}{5}$$



- 2 Use the diagram above. Find the probability that a student studies art, given that they study music.

$$\frac{6}{17}$$

- 3 40 people: 22 have a cat, 15 have a dog and 6 have both. Find the probability that a person does not have a cat, given that they have a dog.

$$\frac{9}{15} = \frac{3}{5}$$

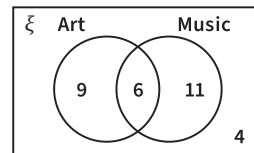
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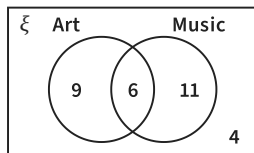
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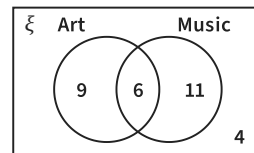
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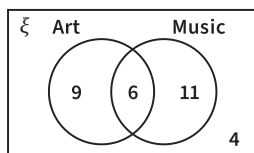
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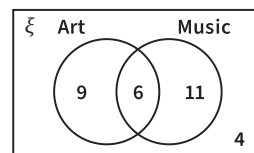
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