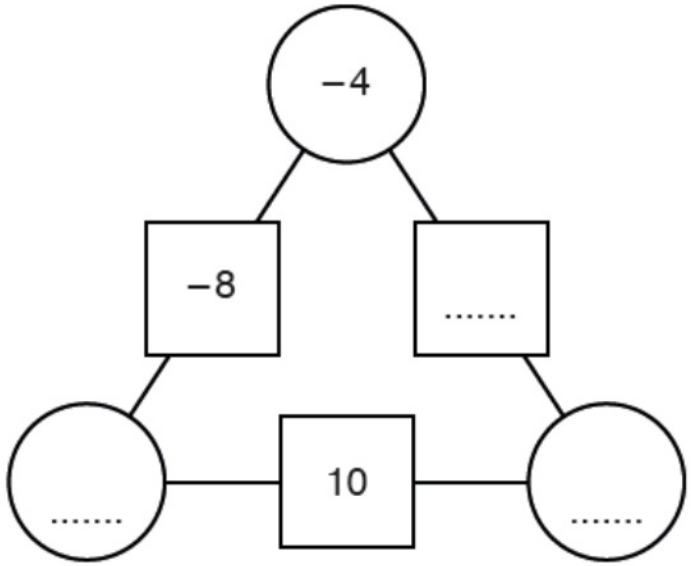
N16 Multiplying Dividing with Negatives

OCR

5 To find the number in a square, multiply the numbers in the two circles connected to it.

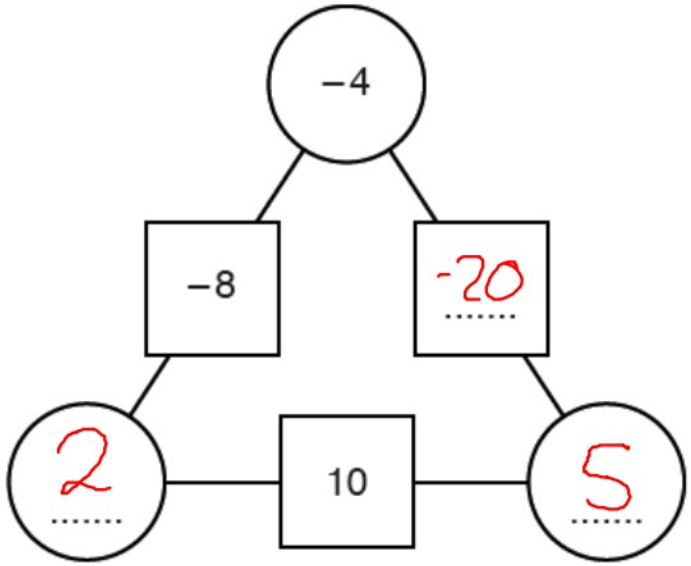


Fill in the missing numbers. **[3]**

Created by W Neill

5 To find the number in a square, multiply the numbers in the two circles connected to it.

$2 \times -4 = -8$



Fill in the missing numbers. **[3]**

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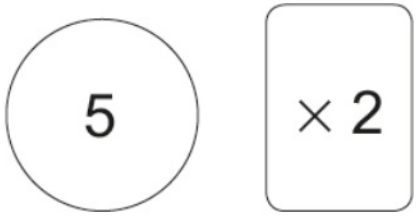
N15/16

(b) A counter has 3 on one side and 5 on the other.
Lena flips the counter.
She then picks one of these three cards at random.

Lena puts the card next to the counter and works out the answer.

For example 

gives the answer 10.

Find the probability that Lena gets an answer **less than 8**.
You must show your working.

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(b) A counter has 3 on one side and 5 on the other.
Lena flips the counter.
She then picks one of these three cards at random.

N15/16

− 1	× 2	+ 4

Lena puts the card next to the counter and works out the answer.

For example 5 × 2 gives the answer 10.

Find the probability that Lena gets an answer **less than 8**.
You must show your working.

4/6

5 -1 = 4 ✓
5 x2 = 10
5 +4 = 9
3 -1 = 2 ✓
3 x2 = 6 ✓
3 +4 = 7 ✓

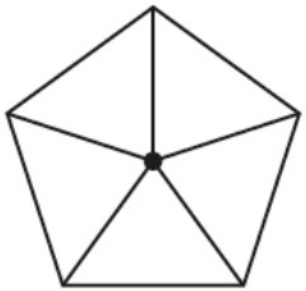
Video created by W Neill

(b) Ciara makes a different fair 5-sided spinner.
She spins the spinner twice and records the product of the two scores.

Ciara says

The probability that the product is negative is 0.48.

Write numbers on the spinner below so that Ciara's statement is correct.



[3]

Video created by W Neill

(b) Ciara makes a different fair 5-sided spinner.
She spins the spinner twice and records the product of the two scores.

N16

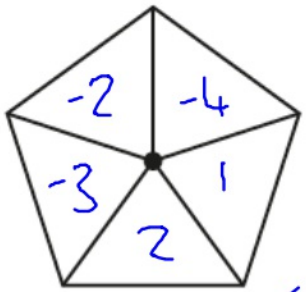
Ciara says

The probability that the product is negative is 0.48.

$\frac{48}{100} \div 4 = \frac{12}{25}$

Write numbers on the spinner below so that Ciara's statement is correct.

$+ \times + = +$
$- \times - = +$
$+ \times - = -$
$- \times + = -$



✓

	−	−	−	+	+
−	+	+	+	−	−
−	+	+	+	−	−
−	+	+	+	−	−
+	−	−	−	+	+
+	−	−	−	+	+

[3]

Edexcel

AQA

Video created by W Neill

17 a is a negative odd number.

N16 Circle the words that describe a^2

[1 mark]

negative and odd

negative and even

positive and odd

positive and even

Video created by W Neill

17 a is a negative odd number. → -3 or -5

N16 Circle the words that describe a^2 **[1 mark]**

-3^2 -3×-3 $= +9$

-5^2 $+25$

negative and odd ✗

negative and even ✗

positive and odd

positive and even