1.14 Estimation and Checking: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 One pack of pencils costs £0.74. A school buys 228 packs. Estimate the total cost by rounding each number to 1 significant figure.

(3)

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2 By rounding each number to 1 significant figure, estimate the value of 17.3 x 6.9.

(2)

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3 Mel estimates 2.4 x 7 by rounding each number to 1 significant figure. Her estimate is 14. Is her estimate an overestimate or an underestimate? Give a reason.

(2)

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4 Ben says that 23 x 58 = 1234. Use estimation to check, and then work out the correct answer if Ben is wrong.

(2)

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Mark scheme · 1.14 Estimation and Checking: 10-minute Pack

Question 1

rounds to 0.7 and 200	**M1**
0.7 x 200 attempted	**M1**
£140 cao	**A1**

Answer: **£140**

Question 2

both numbers rounded to 1 significant figure (20 and 7)	**M1**
140 cao	**A1**

Answer: **140**

Question 3

compares the rounded values with the originals (2.4 to 2, 7 to 7) or finds the exact value 16.800	**M1**
An underestimate with correct reason	**A1**

Answer: **An underestimate**

Question 4

estimate such as 20 x 60 = 1200 or last digit check	**M1**
Incorrect, the correct answer is 1334	**A1**

Answer: **Incorrect, the correct answer is 1334**

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