## Convert between decimals and percentages greater than $100 \%$

Each hundred square represents $100 \%$.


Write the percentages represented by the diagrams.
a)

b)

c)

$\square$
\%

e)


(2)

Complete the tables.

| Percentage | Decimal |
| :---: | :---: |
| $80 \%$ | 0.8 |
| $90 \%$ |  |
| $100 \%$ | 1 |
| $110 \%$ |  |
| $120 \%$ | 1.2 |


| Percentage | Decimal |
| :---: | :---: |
| $98 \%$ | 0.98 |
| $99 \%$ |  |
| $100 \%$ | 1 |
| $101 \%$ | 1.01 |
| $102 \%$ |  |

a) Convert the percentages to decimals.

b) Convert the decimals to percentages.

(4)

Write the percentages represented by the bar models.
a) $\square$
b) $\square$
c) $\square$ $41 \%$
d) $\square$
e)

| $100 \%$ | $100 \%$ | $100 \%$ | $40 \%$ |
| :--- | :--- | :--- | :--- |

$\square$
a) Label the positions of the numbers on the number line.

b) Write the numbers indicated by the arrows. Give your answers as decimals and percentages.


6
Sort the cards into three groups of equivalent numbers.


Tick the statements that are possible. Explain your answers.
a) Giving $110 \%$ effort
b) Increasing a test score by $110 \%$
$\qquad$
$\qquad$
c) Decreasing a test score by $110 \%$
$\qquad$

