Converting between fractions, decimals and percentages

Name _____ Date _____

Convert these percentages to decimals.
(Outcome 1)

1) 25% 2) 35% 3) 40% 4)30% 5)80% 6)5%

7) 10% 8) 15% 9) 20% 10) 50% 11) 75% 12) 90%

Convert these decimals to percentages.
(Outcome 2)

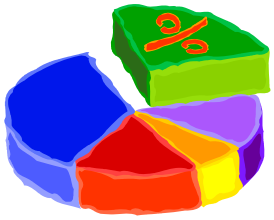
1) 0.10 2) 0.15 3) 0.99 4) 0.05 5) 0.25 6) 0.75

7) 0.2 8) 0.02 9) 0.5 10) 0.80 11) 0.01 12) 0.65

Convert these fractions to decimals.
(Outcome 3)

1) 1/2 2) 1/4 3) 1/10 4) 3/4 5) 1/5 6) 2/5

7) 2/4 8) 2/10 9) 3/10 10) 4/5 11) 1/3 12) 3/5



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Name _____ Date _____

Cancel down these fractions to their lowest form
(Outcome 4)

1) 50/100 2) 20/100 3) 2/8 4) 3/9 5) 6/24 6) 5/75

7) 12/15 8) 75/100 9) 25/50 10) 25/100 11) 80/100 12) 5/20

Convert these decimals to fractions and cancel down
(Outcome 5)

1) 0.1 2) 0.5 3) 0.25 4) 0.75 5) 0.15 6) 0.90

7) 0.2 8) 0.02 9) 0.8 10) 0.08 11) 0.05 12) 0.65

Convert these fractions to percentages
(Outcome 6)

1) $\frac{1}{4}$ 2) $\frac{1}{2}$ 3) $\frac{3}{4}$ 4) 1/3 5) 1/5 6) 1/10

7) 2/5 8) 4/10 9) 4/5 10) 6/10 11) 9/10 12) 2/8

Convert these percentages to a fraction and cancel down
(Outcome 7)

1) 10% 2) 50% 3) 75% 4) 20% 5) 5% 6) 15%

7) 25% 8) 80% 9) 90% 10) 65% 11) 35% 12) 95%

Converting between fractions, decimals and percentages

Teaching notes and curriculum mapping

Written for the AQA Unit Award (mathematics) unit number 74964
http://web.aqa.org.uk/qual/uas.php but suitable for underpinning the following curriculum elements.

Adult Numeracy

N2/L1.3 Recognise equivalencies between common fractions, decimals and percentages and use these to find part of whole number quantities (e.g. 50% = 1/2, 0.25 = 1/4)
(a) know common fraction equivalents, e.g. half, quarters, fifths, tenths
N2/L2.2 Identify equivalencies between fractions, decimals and percentages
(a) understand that fractions, decimals and percentages are different ways of expressing the same thing
(b) know that percentages are fractions out of 100
(c) know that decimal fractions are expressed in tenths, hundredths, thousandths
http://www.excellencegateway.org.uk/page.aspx?o=sflcurriculum

Functional Maths

Ideal for underpinning the following Coverage and Range statements.
Level 1
Understand and use equivalences between common fractions, decimals and percentages
Level 2
Understand and use equivalences between fractions, decimals and percentages
http://www.ofqual.gov.uk/qualification-and-assessment-framework/89-articles/238-functional-skills-criteria

Answers

Outcome 1

1) 0.25	2) 0.35	3) 0.4	4) 0.3	5) 0.8	6) 0.05
7) 0.1	8) 0.15	9) 0.2	10) 0.5	11) 0.75	12) 0.9

Outcome 2

1) 10%	2) 15%	3) 99%	4) 5%	5) 25%	6) 75%
7) 20%	8) 2%	9) 50%	10) 80%	11) 1%	12) 65%

Outcome 3

1) 0.5	2) 0.25	3) 0.1	4) 0.75	5) 0.2	6) 0.4
7) 0.5	8) 0.2	9) 0.3	10) 0.8	11) 0.33	12) 0.6

Outcome 4

1) 1/2	2) 1/5	3) ¼	4) 1/3	5) ¼	6) 1/15
7) 4/5	8) ¾	9) ½	10) 1/4	11) 4/5	12) ¼

Outcome 5

1) 1/10	2) 1/2	3)1/4	4) 3/4	5) 3/20	6) 9/10
7) 1/5	8) 1/50	9) 4/5	10) 2/25	11) 1/20	12)13/20

Outcome 6

1) 25%	2)50%	3) 75%	4) 33.3%	5) 20%	6) 10%
7) 40%	8) 40%	9) 80%	10) 60%	11) 90%	12) 25%

Outcome 7

1) 1/10	2) ½	3) ¾	4) 1/5	5) 1/20	6) 3/20
7) 1/4	8) 4/5	9) 9/10	10) 13/20	11) 7/20	12) 19/20