Equivalent FDP

1. Angel the Archaeologist has uncovered an ancient tomb and a selection of cryptic slabs! She has worked out that less than 6, but more than 3 different slabs are needed in order to unseal the entrance to the tomb.

She says,



> As a decimal, the total value of the slabs must not exceed 0.97. I must also use at least one slab with a fraction.

Slab 1 27%	Slab 2 16%	Slab 3 0.275	Slab 4 $\frac{3}{15}$
Slab 5 $\frac{10}{25}$	Slab 6 30%	Slab 7 $\frac{12}{60}$	Slab 8 0.325

Explore the possible combinations of slabs that are needed in order to unseal the tomb.

DP

2. Martin is trying to solve the equation below.

He says,



> I have made sure that one of the calculations uses an equivalent fraction, decimal or percentage.

Decimal		Fraction		Percentage
0.2	+	$\frac{1}{5}$	=	40%

Fraction		Percentage		Decimal
?	−	?	=	?

\+ ⇨ Solution: 0.96

Complete the calculation so that the equation is correct.

Investigate other solutions to both of the equations, ensuring an equivalent fraction, decimal or percentage is used in one of the calculations, as shown above.

DP

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Explore the possible combinations of slabs that are needed in order to unseal the tomb.

Various answers, for example: Slab 2, Slab 3, Slab 4 and Slab 8. This would provide a total of 0.96 as a decimal.

DP

2. Martin is trying to solve the equation below.

He says,



> I have made sure that one of the calculations uses an equivalent fraction, decimal or percentage.

Decimal		Fraction		Percentage
0.2	+	$\frac{1}{5}$	=	40%
+				
Fraction		Percentage		Decimal
$\frac{6}{8}$	−	19%	=	0.56

Solution: 0.96

Complete the calculation so that the equation is correct.

Various answers, for example: As shown above.

Investigate other solutions to both of the equations, ensuring an equivalent fraction, decimal or percentage is used in one of the calculations, as shown above.

Various answers, for example: 0.1 + $\frac{1}{10}$ = 0.2; $\frac{9}{10}$ − 0.14 = 0.76; 40% = 0.4 + 0.56 = 0.96.

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