

Kingsland CE Primary School

YEAR Five

May June 29th 2020

Arithmetic Challenge



Challenge One: quick fire multiplication check—fill in the grid and let us know what time you did it in!

[illegible][illegible]

Challenge Two: inverse operations

$$236 + \square = 510$$

274

$$\square - 125 = 172$$

297

$$4 \times \square = 1,608$$

402

$$\square \div 3 = 359$$

1,077

$$\square - 424 = 183$$

607

$$\square \div 6 = 258$$

1,548

$$555 + \square = 927$$

372

$$5 \times \square = 645$$

129

Challenge Three: adding large numbers

| addition | | | | | | | | | | | inverse check | | | | | |
|-----------------|---|---|---|---|--|--|--|--|--|--|---------------|--|--|--|--|--|
| 45,302 + 21,009 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 6 | 6 | 3 | 1 | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

| addition | | | | | | | | | | | inverse check | | | | | |
|-----------------|---|---|---|---|--|--|--|--|--|--|---------------|--|--|--|--|--|
| 54,988 + 37,800 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 9 | 2 | 7 | 8 | 8 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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Challenge Four: column multiplication

multiplication check
use jottings

[illegible]

multiplication check
use jottings

[illegible]

Challenge Five: dividing four digit numbers

[illegible]

| | | | | | | | | | | | | | | | | |
|----------|--|---|---|---|---|---|--|--|--|--|---------------------------|--|--|--|--|--|
| division | | | | | | | | | | | There will be a remainder | | | | | |
| | | 8 | 9 | 8 | r | 7 | | | | | | | | | | |
| 9 | | 8 | 0 | 8 | 9 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

| division | | | | | | | | | | multiplication check | | | | |
|----------|---|---|---|---|--|--|--|--|--|----------------------|--|--|--|--|
| | | 7 | 6 | 8 | | | | | | | | | | |
| 3 | 2 | 3 | 0 | 4 | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Challenge Six: square and cubed numbers

Circle the **square** numbers in questions 1 & 2.

1.) 12 4 9 20

4, 9

2.) 36 1 40 14

36,

Circle the **cube** numbers in questions 3 & 4.

3.) 20 1 9 8

8

4.) 64 2 125 52

64, 125

Give one example in each empty box below.

| | 1-digit number | 2-digit number | 3-digit number |
|------------------|-------------------|-------------------|-------------------|
| Square number | 4 | 36 | 121 |
| Cube number | 8 | 27 | 125 |

Challenge Seven: recognise percentage parts of 100

$$\frac{49}{100} = \square \% \quad 49\%$$

$$\frac{1}{100} = \square \% \quad 1\%$$

$$0.26 = \square \% \quad 26\%$$

$$0.75 = \square \% \quad 75\%$$

$$0.37 = \square \% \quad 37\%$$

$$\frac{19}{100} = \square \% \quad 19\%$$

$$0.51 = \square \% \quad 51\%$$

$$\frac{8}{100} = \square \% \quad 8\%$$