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<tr>
<td>13</td>
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<td>Vocabulary and Directed Numbers</td>
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<td>Word Based Puzzle</td>
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</table>
Week 1 Maths – Addition

1) 7 + 3 =
2) 12 + 8 =
3) 5 + 17 =

4) 13 + 14 =
5) 23 + 19 =
6) 26 + 27 =

7) 37 + 15 =
8) 26 + 19 =
9) 13 + 37 =

Timester Challenge
1) 3 x 0 =
2) 3 x 1 =
3) 3 x 2 =
4) 3 x 3 =
5) 3 x 4 =
6) 3 x 5 =
7) 3 x 6 =
8) 3 x 7 =
9) 3 x 8 =
10) 3 x 9 =
11) 3 x 10 =
12) 3 x 11 =
13) 3 x 12 =
14) 3 x 13 =

376 + 572 + 592 + 736 + 5947 =
123 369 272 543 1453

1385 + 3476 = 4863 + 264 = 253 + 8597 = 7309 + 4983 = 10046 + 943 =

3.43 + 5.63 + 35.9 + 4.72 + 1347 =
2.45 3.59 17.2 56.3 5.62

48.93 + 34.76 = 4.893 + 85.96 = 8.54 + 85.96 = 7.359 + 85.96 = 10.546 + 2.65 =

A Book costs £3.49 and a DVD costs £4.99. Miss Cady wants to buy three books and two DVD’s for the library.
a) How much will this cost?
b) Mrs Charlton only has £20 does she have enough and why?

To improve I am going to ____________________________

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### Week 2 Maths – subtraction

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<thead>
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<tbody>
<tr>
<td>1) 19 – 5 =</td>
<td>2) 34 – 3 =</td>
<td>3) 39 – 12 =</td>
</tr>
<tr>
<td>4) 48 – 15 =</td>
<td>5) 74 – 9 =</td>
<td>6) 72 – 16 =</td>
</tr>
<tr>
<td>7) 74 – 12 =</td>
<td>8) 87 – 18 =</td>
<td>9) 56 – 27 =</td>
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</tbody>
</table>

### Timester Challenge

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<table>
<thead>
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</thead>
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<tr>
<td>1) 2 x 0 =</td>
<td>2) 2 x 1 =</td>
<td>3) 2 x 2 =</td>
</tr>
<tr>
<td>4) 2 x 3 =</td>
<td>5) 2 x 4 =</td>
<td>6) 2 x 5 =</td>
</tr>
<tr>
<td>7) 2 x 6 =</td>
<td>8) 2 x 7 =</td>
<td>9) 2 x 8 =</td>
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<tr>
<td>10) 2 x 9 =</td>
<td>11) 2 x 10 =</td>
<td>12) 2 x 11 =</td>
</tr>
<tr>
<td>13) 2 x 12 =</td>
<td>14) 2 x 20 =</td>
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</table>

### Subtraction of Numbers

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<tr>
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<tbody>
<tr>
<td>356</td>
<td>472</td>
<td>562</td>
<td>726</td>
<td>1343</td>
</tr>
<tr>
<td>127</td>
<td>399</td>
<td>372</td>
<td>463</td>
<td>433</td>
</tr>
<tr>
<td>3426 – 1345 =</td>
<td>4693 - 265 =</td>
<td>8536 - 4537 =</td>
<td>7359 - 2563 =</td>
<td>10546 - 969 =</td>
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### Subtraction of Decimals

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<tbody>
<tr>
<td>3.73</td>
<td>5.36</td>
<td>25.9</td>
<td>472</td>
<td>8.397</td>
</tr>
<tr>
<td>2.45</td>
<td>3.99</td>
<td>18.2</td>
<td>54.3</td>
<td>5.62</td>
</tr>
<tr>
<td>48.63-32.76=</td>
<td>82.96-4.69 =</td>
<td>85.96 – 6.84 =</td>
<td>86.8 – 75.27 =</td>
<td>10.846-2.64 =</td>
</tr>
</tbody>
</table>

---

Miss Cook is going on a time team mission and needs to buy some vital equipment. She needs a trowel £7.49, bucket £11.56 and a tooth brush £1.57. She only has £20 is this enough?

---

To improve I am going to ______________
______________
______________
______________

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Week 3 Mental Maths video

Timester Challenge

1) 3 x 5 = 11) 3 x 7 =
2) 2 x 6 = 12) 4 x 2 =
3) 4 x 3 = 13) 2 x 0 =
4) 7 x 2 = 14) 3 x 12 =
5) 3 x 9 = 15) 11 x 2 =
6) 2 x 8 = 16) 20 x 3 =
7) 3 x 11 = 17) 8 x 3 =
8) 0 x 3 = 18) 2 x 9 =
9) 2 x 5 = 19) 12 x 2 =
10) 9 x 3 = 20) 20 x 2 =

Tier words

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<th>T2</th>
<th>T3</th>
<th>Definition</th>
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</tr>
<tr>
<td>Take Away</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Keane – Everybody changes

Answer: ________
Week 4 Maths – Multiplication

1) 8 x 10 =  
2) 16 x 10 =  
3) 8 x 10 =  
4) 103 x 100 =  
5) 72 x 100 =  
6) 23 x 10 =  
7) 38 x 10 =  
8) 24 x 1000 =  
9) 2.7 x 10 =  

1) 27 x 16=  
2) 53 x 48 =  
3) 64 x 28 =  
4) 57 x 36 =  
5) 29 x 14 =  
6) 536 x 63 =  
7) 429 x 17 =  
8) 562 x 34 =  
9) 243 x 47 =  
10) 140 x 306=  

1) 3 x 0.5 =  
2) 6 x 0.5 =  
3) 3.4 x 0.25 =  
4) 0.25 x 0.25 =  
5) 0.6 x 0.75 =  
6) 2.6 x 0.1 =  
7) 3.4 x 0.6 =  
8) 0.12 x 0.5 =  
9) 0.14 x 0.3 =  
10) 0.26 x 0.3 =  

Miss Bartram wants to buy 6 pencils, 10 pens and 5 rulers for spare equipment. Pens cost 35p, pencils cost 12p and rulers cost 24p. Miss Bartram has £7, does she have enough. (Show all working out)

To improve I am going to ____________________________
_______________________________________________________
_______________________________________________________
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**Week 5 Maths – Division**

1) \(42 \div 6 =\)

2) \(16 \div 4 =\)

3) \(56 \div 7 =\)

4) \(63 \div 9 =\)

5) \(72 \div 8 =\)

6) \(42 \div 7 =\)

7) \(35 \div 5 =\)

8) \(28 \div 4 =\)

9) \(66 \div 6 =\)

10) \(121 \div 11 =\)

11) \(356 \div 2 =\)

12) \(98 \div 2 =\)

13) \(156 \div 13 =\)

14) \(196 \div 14 =\)

15) \(510 \div 17 =\)

16) \(483 \div 23 =\)

17) \(525 \div 21 =\)

18) \(540 \div 36 =\)

19) \(450 \div 25 =\)

1) \(10 \div 0.5 =\)

2) \(16 \div 0.5 =\)

3) \(16 \div 0.25 =\)

4) \(32 \div 0.25 =\)

5) \(16 \div 0.75 =\)

6) \(260 \div 0.1 =\)

7) \(34 \div 0.1 =\)

8) \(283 \div 0.1 =\)

9) \(2.4 \div 0.1 =\)

10) \(26 \div 0.01 =\)

---

**Miss Bowes is arranging a school trip and has a budget of £350. Each child that comes costs £16. What is the maximum amount of pupils that could go on the trip? (Show all working out)**

To improve I am going to ____________________________

______________________________

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Week 6 Mental Maths video

Timester Challenge

1) 3 x 9 = 11) 4 x 7 =
2) 4 x 6 = 12) 4 x 2 =
3) 4 x 3 = 13) 5 x 0 =
4) 7 x 2 = 14) 5 x 12 =
5) 3 x 9 = 15) 11 x 5 =
6) 5 x 8 = 16) 20 x 5 =
7) 3 x 12 = 17) 8 x 4 =
8) 0 x 5 = 18) 4 x 9 =
9) 4 x 5 = 19) 12 x 4 =
10) 9 x 3 = 20) 20 x 4 =

Tier words

<table>
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<th>T1</th>
<th>T2</th>
<th>T3</th>
<th>Definition</th>
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<tr>
<td>Quotient</td>
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The Automatic - Monster

Answer: ________
# Week 7 Maths – BIDMAS

1) $3 + 4 \times 2 =$  
2) $5 \times 4 \div 2 =$  
3) $70 - 3 \times 5 =$  

4) $45 \div 9 + 4 =$  
5) $15 + 7 \times 6 =$  
6) $24 - 49 \div 7 =$  

7) $2 \times 16 \div 4 =$  
8) $9 + 35 \div 5 =$  
9) $36 - 10 + 4 =$  

---

**Timester Challenge**

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</thead>
<tbody>
<tr>
<td>1) $6 \times 0 =$</td>
<td>2) $6 \times 1 =$</td>
<td>3) $6 \times 2 =$</td>
<td>4) $6 \times 3 =$</td>
<td>5) $6 \times 4 =$</td>
<td>6) $6 \times 5 =$</td>
<td>7) $6 \times 6 =$</td>
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</tbody>
</table>

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Correct these questions by putting one or two sets of brackets in.

1) $7 - 3 \times 3 - 2 =$  
2) $9 - 4 \div 9 - 5 =$  
3) $7 + 4 - 9 \div 3 =$  

4) $2 \times 4 - 1^2 - 10 =$  
5) $21 \div 10 \div 5 + 1 =$  
6) $40 \div 3 + 2 \times 4 =$  

---

Mr Ingram wants to find the largest number possible. Use all of the following to write a single calculation whose answer is as large as possible:

- Each of the numbers 7, 8 and 9 (once only)
- Each of the operations + and $\times$ (only once)
- One pair of brackets

---

To improve I am going to__________

__________

__________

__________

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Week 8 Maths – Percentages

1) 50% of 140  2) 10% of 120  3) 50% of 200
4) 10% of £70  5) 25% of £40  6) 1% of 1800cm
7) 25% of £120  8) 50% of 90m  9) 1% of £2400

1) 35% of £80  2) 45% of £120  3) 3% of 120m  4) 12% of 3600cm
5) 5% of £320  6) 75% 48cm  7) 23% of 150m  8) 17.5% of £500

1) Increase £40 by 20%  2) Increase £24 by 75%  3) Decrease £88 by 10%  4) Decrease £320 by 20%  5) Increase £458 by 35%

Miss Cox went to Disneyland Paris and wanted to buy a Buzz Lightyear lazer gun. Each gun cost €45, however there was a 20% sale. How much do the ears cost in the sale?

To improve I am going to ____________________________
___________________________
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Week 9 Mental Maths video

Timester Challenge

1) 4 x 9 =  
2) 7 x 6 =  
3) 4 x 7 =  
4) 7 x 2 =  
5) 6 x 9 =  
6) 5 x 8 =  
7) 7 x 7 =  
8) 6 x 5 =  
9) 4 x 6 =  
10) 9 x 7 =  
11) 8 x 7 =  
12) 4 x 8 =  
13) 5 x 0 =  
14) 5 x 12 =  
15) 11 x 7 =  
16) 20 x 7 =  
17) 3 x 4 =  
18) 4 x 9 =  
19) 2 x 6 =  
20) 20 x 6 =  

Tier words

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<th>T1</th>
<th>T2</th>
<th>T3</th>
<th>Definition</th>
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<td></td>
<td></td>
</tr>
<tr>
<td>Decrease</td>
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</table>

JLS – Beat again

Answer: __________
Week 10 Maths – Simplifying Fractions

What is the fraction shaded in on each grid?

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 

Simplify the following fractions

1) \( \frac{5}{10} \)  
2) \( \frac{2}{4} \)  
3) \( \frac{2}{8} \)  
4) \( \frac{3}{9} \)  
5) \( \frac{15}{20} \)  
6) \( \frac{21}{28} \)  
7) \( \frac{36}{63} \)  
8) \( \frac{30}{42} \)  
9) \( \frac{32}{48} \)  
10) \( \frac{33}{121} \)  

Convert these improper fractions to mixed numbers

1) \( \frac{15}{10} \)  
2) \( \frac{17}{9} \)  
3) \( \frac{26}{5} \)  
4) \( \frac{18}{3} \)  
5) \( \frac{31}{8} \)  
6) \( \frac{78}{5} \)  
7) \( \frac{98}{11} \)  
8) \( \frac{29}{6} \)  
9) \( \frac{13}{7} \)  
10) \( \frac{17}{4} \)  

Miss Bartram has a bag. In her bag there are pink and blue balls. What is the probability of choosing a pink?

b) Design a bag with \( P(\text{green}) = \frac{2}{5} \).

c) Design a bag with \( P(\text{green}) = \frac{2}{5} \) but there are 15 objects in the bag.

To improve I am going to____________________
____________________
____________________
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Week 11 Maths – Adding fractions

1) \( \frac{1}{5} + \frac{2}{10} = \)
2) \( \frac{3}{8} + \frac{1}{4} = \)
3) \( \frac{1}{3} + \frac{2}{9} = \)
4) \( \frac{2}{7} + \frac{5}{14} = \)
5) \( \frac{2}{5} + \frac{1}{6} = \)
6) \( \frac{4}{7} + \frac{1}{3} = \)
7) \( \frac{1}{2} + \frac{5}{8} = \)
8) \( \frac{3}{8} + \frac{1}{4} = \)
9) \( \frac{3}{5} + \frac{4}{7} = \)
10) \( \frac{3}{8} + \frac{2}{7} = \)

3) \( \frac{4}{10} + \frac{3}{10} = \)
4) \( \frac{2}{5} + \frac{1}{5} = \)
5) \( \frac{3}{8} + \frac{2}{8} = \)
6) \( \frac{4}{13} + \frac{5}{13} = \)

Miss Livesey is putting together a piece of music. Each bar needs \( \frac{6}{8} \) notes. How many notes are needed for 9 bars?

To improve I am going to ________________

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Week 12 Mental Maths video

Timester Challenge

21) 4 x 9 = 31) 8 x 3 =
22) 7 x 9 = 32) 4 x 7 =
23) 8 x 7 = 33) 8 x 0 =
24) 7 x 2 = 34) 9 x 12 =
25) 6 x 8 = 35) 11 x 7 =
26) 5 x 8 = 36) 20 x 7 =
27) 7 x 7 = 37) 7 x 6 =
28) 9 x 5 = 38) 4 x 3 =
29) 4 x 7 = 39) 9 x 6 =
30) 9 x 8 = 40) 20 x 9 =

Tier words

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<th>T1</th>
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<th>T3</th>
<th>Definition</th>
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The Saturdays – Forever is over

Answer: ________
Week 13 Maths – Fractions-Decimals-Percentages

What percentage and fraction is shaded in each of the following.

<table>
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<tr>
<th>Percentage</th>
<th>Fraction</th>
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<tbody>
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</tbody>
</table>

Complete the following table (converting between fraction, decimal and percentages)

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Percentage</th>
<th>Decimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\frac{1}{2})</td>
<td>50%</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>20%</td>
<td>0.25</td>
</tr>
<tr>
<td>(\frac{1}{10})</td>
<td></td>
<td>0.7</td>
</tr>
</tbody>
</table>

Complete the following table (converting between fraction, decimal and percentages)

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Percentage</th>
<th>Decimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\frac{1}{10})</td>
<td>10%</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td>11.5%</td>
<td>0.35</td>
</tr>
<tr>
<td>(\frac{1}{3})</td>
<td></td>
<td>0.125</td>
</tr>
</tbody>
</table>

Mr Burgess looks at three different pupils test results. Pupil a scores \(\frac{9}{10}\), pupil b scores \(\frac{16}{20}\) and pupil c scores \(\frac{13}{15}\).

a) Which pupil scores the highest? b) Which pupil scores the lowest?

To improve I am going to ______________  ______________  ______________
Week 14 Maths – Ratio

Write these ratios in their simplest form

1) 2:4
2) 6:9
3) 6:8
4) 10:15
5) 25:50
6) 20:50
7) 33:77
8) 18:27
9) 8:16

1) Share £50 into the ratio 2:3.
2) Share £24 into the ratio 3:1.
3) Share £48 into the ratio 1:2.
4) Share £18 into the ratio 1:5.
5) Share £35 into the ratio 2:5.

1) There are 32 sweets in total. Mr Ingram has 3 times as many sweets to Mr Toor. How many sweets do they both have?
2) Both Robyn and Ben play football. Ben scores 3 times as many goals as Robyn. Ben scores 21 goals, how many does Robyn score?
3) Homer wants to share £65 between Bart, Lisa and Maggie. Lisa gets 3 times as much as Maggie. Bart gets twice as much as Lisa. How much do they each get?

Mrs Yardley wants to make a sugary treat. To make sugar syrup, 150 grams of sugar is mixed with 250 ml of water.

a) How many grams of sugar are mixed with 1000 ml of water?
b) How much water is mixed with 150 grams of sugar?

To improve I am going to ______________
______________________________________
______________________________________
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Week 15 Mental Maths video

**Timester Challenge**

1) 4 x 9 = 11) 8 x 11 =
2) 11 x 9 = 12) 11 x 7 =
3) 8 x 7 = 13) 8 x 10 =
4) 7 x 2 = 14) 9 x 12 =
5) 9 x 8 = 15) 11 x 7 =
6) 5 x 10 = 16) 20 x 7 =
7) 7 x 10 = 17) 7 x 12 =
8) 9 x 5 = 18) 4 x 12 =
9) 4 x 11 = 19) 12 x 6 =
10) 9 x 11 = 20) 20 x 9 =

**Tier words**

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<thead>
<tr>
<th>Tier words</th>
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<th>Definition</th>
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<tr>
<td>Evaluate</td>
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Hanson - Mmmmbop

Answer: __________
Week 16 Maths – Collecting like terms

How many of each object is there?

To find the next term add the two bricks below

1) 2a  a  5a
2) 9k  9k  5k  5k
3) 3q  3q  5q  5q
4) 7s  7s  5s  5s  4s

To find the next term add the two bricks below

1) 32c  17c  8c
2) 32g  17g  10g
3) 72v  41v  22v
4) 2s+3t  5s  7t  5s+1

Mr Toor asked the students to simplify 7x -2z +y + 3z –x
Pupil a  6x + y – z  Pupil b  5x +8y – 5z  Pupil c  6x + y + z
Which student has the correct answer and can you tell what the mistakes were?

To improve I am going to____________________________________
____________________________________
____________________________________

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Week 17 Maths – Substitution

If \(a = 4\) find the value of

1) \(3a\)  
2) \(4a + 2\)  
3) \(5 + 2a\)  
4) \(14 - 3a\)  
5) \(12a - 9\)  
6) \(a^2\)  
7) \(a^3\)  
8) \(3a^2\)  
9) \(2a^2 + 4\)  
10) \(9a + a^2\)

If \(m = 5\) and \(n = 2\) find the value of

1) \(2m + 3n\)  
2) \(3m - 5n\)  
3) \(3mn\)  
4) \(2m - 5n\)  
5) \(mn + 4\)  
6) \(2mn - 15\)  
7) \(m^2 - 3n\)  
8) \(2mn + 3n\)  
9) \(3m^2 - 2n^3\)  
10) \(4n^3 - m^2\)

Mr Johnson says \(2x - y\) can never be equal to \(y - 2x\), however Mr Johnson says they are equal if \(x = 3\) and \(y = 6\). Can you find another pair of values for which these two expressions are equal?
What is the rule for finding them?

To improve I am going to __________________________
______________________________
______________________________
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### Week 18 Maths – Vocabulary and Directed Numbers

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#### Wordsearch

```
T V X H F F L V J U N
Y H N R H A L A R V E J
L T I I D M S P T V I S
U Q N R N B I Q E F I P
L S O E T E X S N X C F
P Q X X W E T Y Q Z I E
S E V E N T E E N F Y V
J S W V B T E N T M E L
Z O P M F K N E V E L E
F I V E S L E U S W X W
T A V U H N D J Q L R T
B Y S R A H C Q F Z L O
```

#### Directed Numbers

- \(3 - (-4) = 7\)
- \(5 - (-4) = 9\)
- \(8 - (-5) = 13\)

- \(-2 + 12 = 10\)
- \(-5 + 22 = 17\)
- \(-2 + 17 = 15\)

- \(-5 + 10 = 5\)
- \(-4 + 15 = 11\)
- \(-5 + 25 = 20\)

- \(-3 - (-9) = 6\)
- \(-1 - (-17) = 16\)
- \(-3 - (-15) = 12\)

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Word Based Mixed Operations Puzzle

Complete all the operations described to solve all the squares in the puzzle.

Across
1. Subtract 21 from 79
2. Subtract 23 from 51
4. Multiply 8 by 3
5. Subtract 16 from 53
6. Subtract 54 from 150
7. Divide 344 by 8
8. Subtract 15 from 70
9. Multiply 5 by 3
10. Subtract 13 from 49
12. Divide 644 by 14
13. Multiply 11 by 2
14. Add 39 and 28
15. Divide 300 by 4
16. Subtract 10 from 45
17. Multiply 43 by 2
18. Add 1 and 47
20. Divide 440 by 10
21. Add 25 and 4
22. Add 22 and 17

Down
1. Divide 702 by 13
2. Add 21 and 6
3. Subtract 19 from 45
4. Multiply 7 by 3
5. Divide 132 by 4
6. Divide 380 by 4
7. Subtract 40 from 85
8. Multiply 14 by 4
9. Subtract 14 from 30
10. Multiply 8 by 4
11. Add 19 and 38
12. Add 46 and 1
13. Subtract 17 from 42
14. Divide 195 by 3
15. Add 57 and 19
16. Subtract 19 from 57
17. Multiply 12 by 7
18. Divide 245 by 5
19. Add 5 and 14

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Working out

Week ____

Week ____