NAME:_____   DATE:_____

Quantitative Reasoning   3rd Grade

```
        ( 3 )
          |
       [ 11 ]
       /      \
   [ 4 ]     [ 2 ]
```

$(4 \times 2) + 3 = 11$
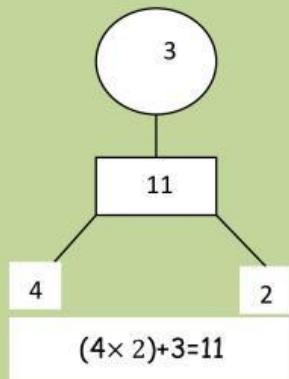
Use the sample above to solve the following questions

(1)
```
     ( 16 )
        |
     [ 214 ]
     /      \
  [ ? ]     22
```
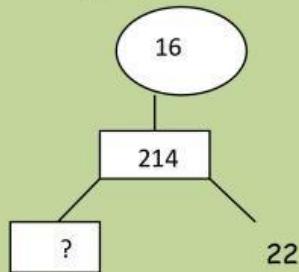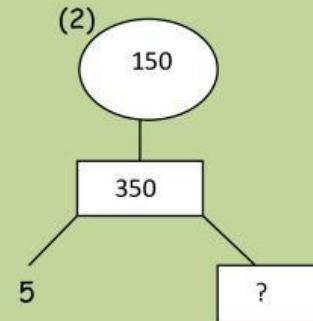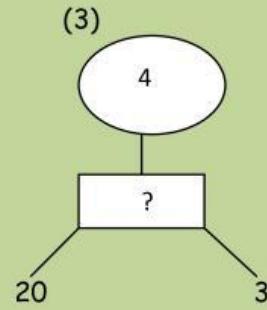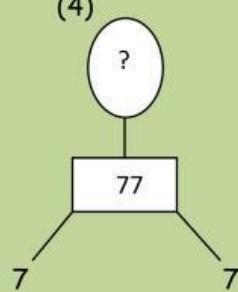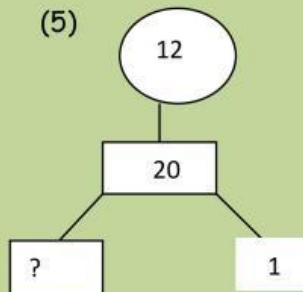
(2)
```
     ( 150 )
        |
     [ 350 ]
     /      \
    5      [ ? ]
```

(3)
```
     ( 4 )
       |
     [ ? ]
     /    \
   20      3
```

(4)
```
     ( ? )
        |
     [ 77 ]
     /     \
    7       7
```

(5)
```
     ( 12 )
        |
     [ 20 ]
     /     \
  [ ? ]     1
```

NAME:_____   DATE:_____

Sample:

3   9   6=45
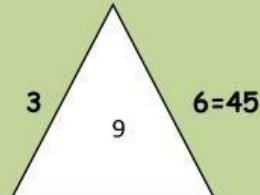
$3+6=9, 3^2+6^2=45$

Use the sample above for the following:

6)
6   13   =85

7)
10   14   4=?

8)
?   5   3=13
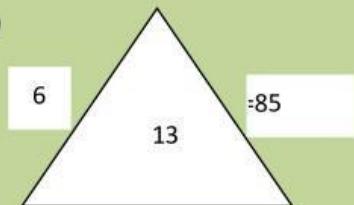
(a) 6 (b) 9 (c) 7 (d) 5 (e) 20 23
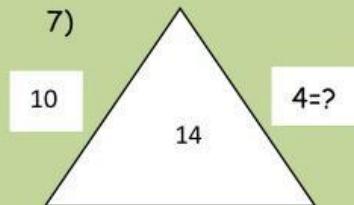
(a) 126 (b) 102 (c) 100 (d) 116 (e) 12

(a) 2 (b) 3 (c) 5 (d) 8 (e)

9).
7   ?   5=74
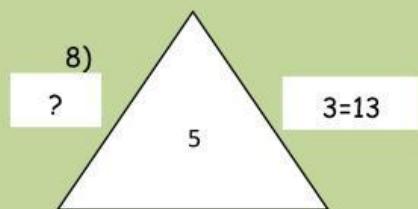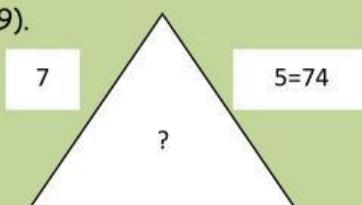
(a) 12 (b) 15 (c) 10 (d) 14 (e) 60

(b) Use the sample below to solve Questions 1-5
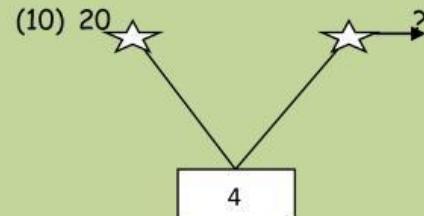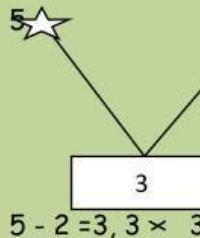
5 ★   ★ → 9

3

5 - 2 = 3, 3 × 3 = 9

(10) 20 ★   ★ → 2

4

INSPIRED TOTS EARLY LEARNING CENTER
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NAME:_____   DATE:_____

11) ? ☆ ————— ☆ → 45

15

12) 11 ☆ ————— ☆ → 27

?

13) 22 ☆ ————— ☆ → 60

?

14) 6 ☆ ————— ☆ → ?

17

Sample:

9

63 | 7

3   3

$3 \times 3 = 9, 9 \times 7 = 63$

Use the sample above for the following:

15) 12

? | 5

3   4

16) 25

150 | 6

?   5

17) 6

24 | 4

1   ?

18) ?

160 | 4

8   5

19) 49

490 | 10

7   ?

20) 4

? | 5

1   4

LIVEWORKSHEETS
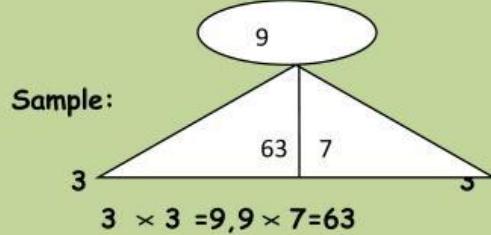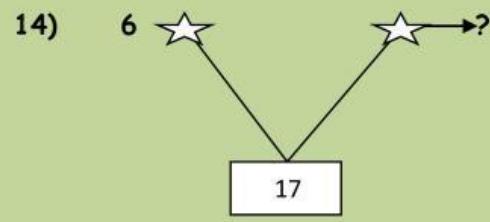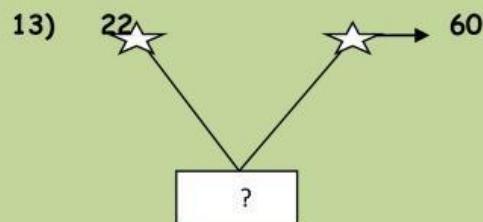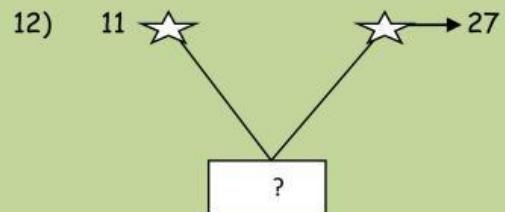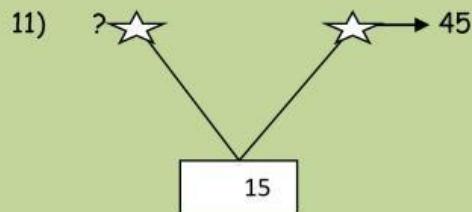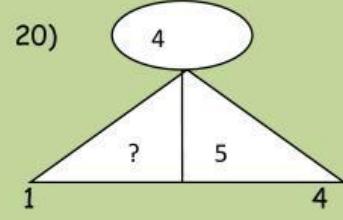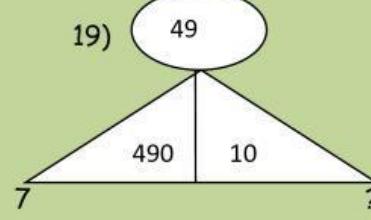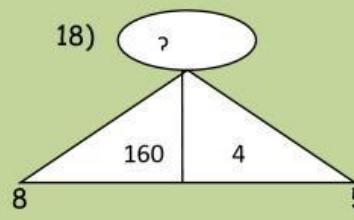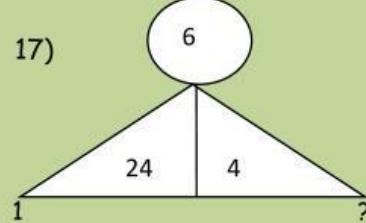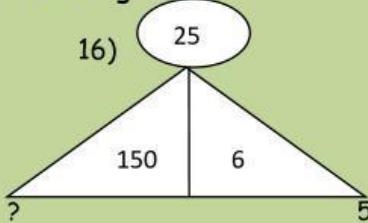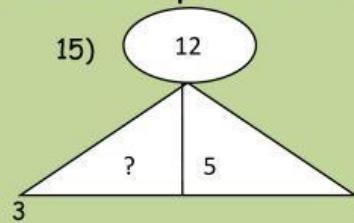
NAME:_____   DATE:_____

The diagram below represents pupils in Inspired Tots ELC and the game they play.
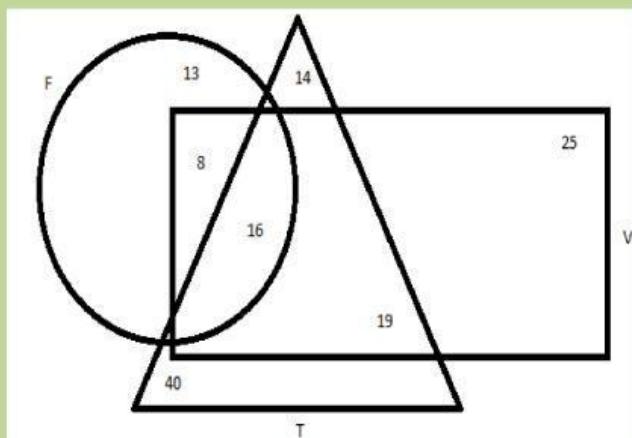
Use this information to answer questions 21-30

21. How many pupils play Tennis? A). 14   B). 40   C). 17   D). 54

22. How many pupils play both Volleyball and Football but not Tennis? A) 17 B). 13
     C). 8 D). 25

23. How many pupils play only Volleyball? A). 40   B). 14   C). 19   D). 25

24. How many pupil play both Tennis and Volleyball? A). 17   B). 19   C). 8 D). 25

25. How many pupils play all the three games?   A)   8   B). 19 C). 14   D). 16

26. How many pupils play both Football and Tennis but not Volleyball?   A). 16   B). 8
     C). 40   D).   none

27. How many pupils play only Football?   A). 13 B). 25   C). 14 D). 40

28. How many pupils are there in Inspired Tots ELC all together?   A). 110   B). 135
     C) 125   D). 140

29. What is the total number of pupils that play only one game? A). 60   B). 78
     C). 92   D). 105

30. What is the total number of pupils that play two games? A). 25   B). 27
     C). 43   D). 55

INSPIRED TOTS EARLY LEARNING CENTER
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STUDY THE EXAMPLE BELOW   AND ANSWER   36-40

4   10

9

10   ?

31.

20

$(10 \div 2) + 4 = 9$

32. 2   ?

49

33. 6   1

?

34.   54

60

35.   6

20

INSPIRED TOTS EARLY LEARNING CENTER
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NAME:_____   DATE:_____

6

42

8   6

$6 \times 8 - 6 = 42$

36) ?

86

17   18

37) 13

?

9   7

38) 1

29

6   ?

39) ?

120

60   3

40) 10

34

?   11