- 1. Simplify: $5 \cdot 11^2 3(2^4 4 \div 2 \cdot 3)$
- 2. Simplify: $-6 3(12 2^3) \div 4$
- 3. Simplify: $\frac{65+15(4)-6}{10+15+3+2}$
- 4. Simplify: $7 + 3^2 \cdot 4 2(14 8 \div 2)$
- 5. Insert the fewest number of grouping symbols to make the following equation true:

$$24 \div 3 + 9 \times 5 - 2 = 6$$

6. Place addition or subtraction or multiplication signs between the digits, to make a problem with an answer of 100. Do not change the order of the digits.

7. What is the maximum value that can be attained from the following expression when grouping symbols are added?

$$4+5\times 8+4-2\times 3$$

- 8. Simplify: $\frac{\frac{1}{2} \times 1024}{0.125 \times 2^{12}}$.
- 9. An ordered pair of digits (a, b) is such that 4a5,b32 is a multiple of 66. Find a + b.
- 10. Find distinct digits A and B such that $\underline{A47B}$ is as large as possible and divisible by 36. Name the number.
- 11. What is the smallest positive integer exactly divisible by 2, 3, 4, 5, 6 and 7?
- 12. The six-digit number 3730n5, with tens digit n, is divisible by 21. What is the value of the digit n?
- 13. The five-digit number 31d26 is divisible by 3. Find the sum of all possible values of d.

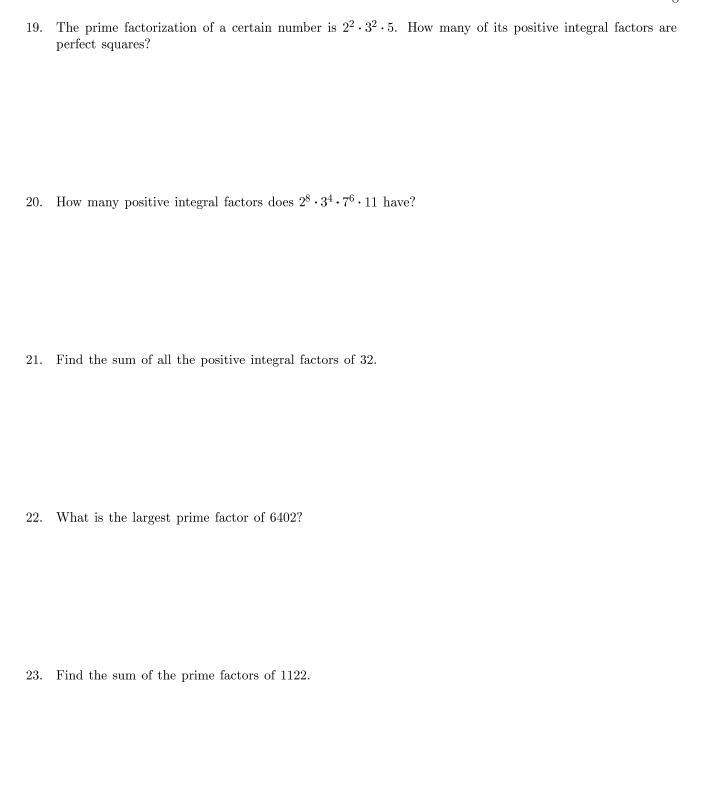
Page 3

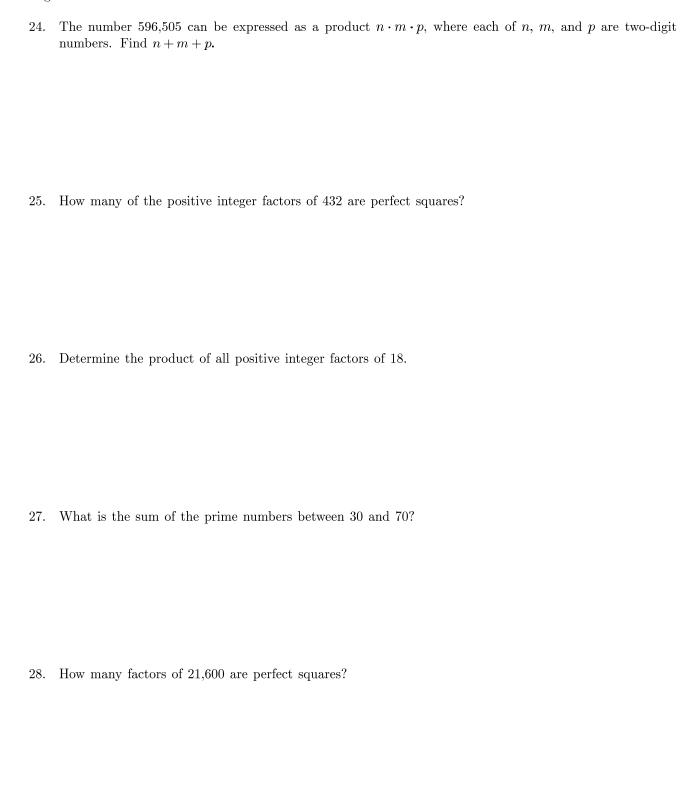
- 14. Given that 3^n divides 15!, what is the greatest possible integral value of n?
- 15. How many positive integers less than 400 are divisible by both 7 and 11?
- 16. For what digit a in the hundreds position will the six-digit number 907 a32 be divisible by 33?

17. How many three-digit numbers, with three different digits, are divisible by eleven?

18. What is the value of a in the following equation?

$$720 = 2^a \cdot 5 \cdot 3^2$$





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M8 Honours CH1 Review mr. Young 2016-10-06

Answer List

1		5	7	

7. 318

10. 5472

13. 18

16. 6

19. 4

22. 97

25. 6

28. 12

2. -9

5. $24 \div (3+9) \times (5-2) = 6$

8. 1

11. 420

14. 6

17. 64

20. 630

23. 33

26. 5832

3. $\frac{119}{30}$

6. $9 \times 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1$

9. 10

12. 6

15. 5

18. 4

21. 63

24. 255

27. 439

Catalog List

1.	MCH	AG	58
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4. MCH AG 21

7. MCH AG 76

10. MCH DD 25

13. MCH DD 34

16. MCH DD 44

19. MCH DE 20

15. MOH DE 20

22. MCH DE 71

25. MCH DE 98

28. MCH DH 29

2. MCH AG 67

5. MCH AG 75

8. MCH AG 81

11. MCH DD 29

14. MCH DD 41

17. MCH DD 38

20. MCH DE 29

23. MCH DE 49

26. MCH DE 86

3. MCH AG 49

6. MCH AG 45

9. MCH DD 26

12. MCH DD 50

15. MCH DD 45

18. MCH DE 15

21. MCH DE 18

24. MCH DE 76

27. MCH DH 19